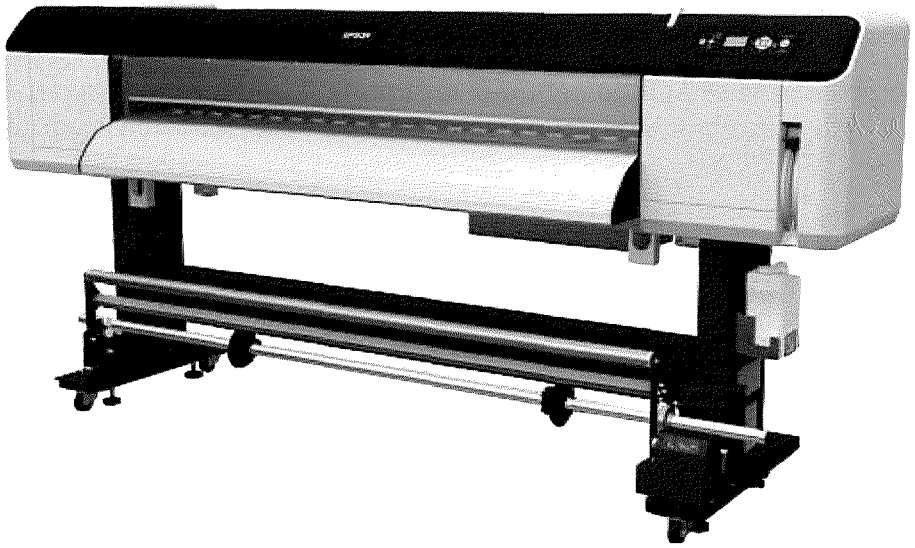
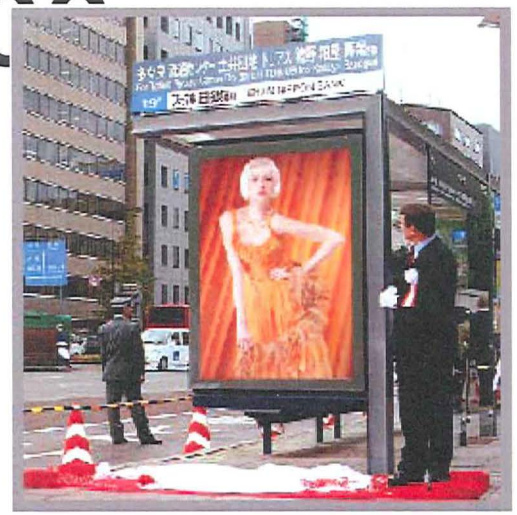
EPSON
Stylus Pro GS6000
Training



081010
Anders Nordin
InfoCare Sweden
Internal Use Only

This Training document is based on EPSON Service Manual Rev. A,
www.epson.se and Users Manuals.

EPSON Stylus Pro GS60[illegible]



Main Features

- **Epson Stylus Pro GS6000 key features summary:**

* 8-color Epson UltraChrome GS eco-solvent type ink set.
  Prints with 2 Epson Micro Piezo print head.

* Long-lasting prints
  – Durability both indoor and outdoor.

* Prints on a range of different coated and non-coated substrates such as vinyl, making it an ideal, flexible production solution for multiple commercial applications.
  ej på papper!
* Quality and speed
  – Up to 1440x1440 dpi and 25.3m2/hr.

* It has an exceptionally wide colour gamut which provides enhanced support for commonly used spot colors, making the Stylus Pro GS6000 ideal for branded applications.

* User and environmentally friendly
  – Epson GS eco-solvent type ink avoids the spread of harmful VOCs so no additional ventilation is required.

* Importantly for the environment and operators, Epson UltraChrome GS ink doesn't spread harmful VOCs (volatile organic compound) is the first major eco-solvent type ink set to be launched without the need for a hazard symbol.

* Easy-to-use and control with versatile "paper" management and high speed connectivity.

* The Epson Stylus Pro GS6000 will retail at •29,995* (ex VA, April 08) including auto-take-up-reel, a maintenance and starter-kit (including ink).

Read More
www.epson.se

EPSON Stylus Pro GS6000

Main Features / Specifications

Technology:	On Demand Ink Jet, Epson Variable-sized Droplet Technology, (Smallest 3,7 picoliter).
Ink Types:	Epson Ultra Chrome GS ink (Eco fiendly Solvent Ink). Printer should not be used in temperatures above 60 degrees Celcius. Flashing point 71 degrees Celcius.
Emulation:	Epson ESC/P Raster, ESC/P2. RIP Support only (no driver avalible).
Printheads:	Two printhead with 2 * 180 Nozzle * 8 Colors.
Ink Config:	8 Colors Solvent Ink. Flashing point 71 degrees Celcius. **Left:** Orange, Green, Light Magenta, Light Cyan. **Right:** Black, Yellow, Magenta, Cyan. (page 8)
Printspeed:	Up to 1440x1440 dpi and with 25.3 m2/hr.
Resolution:	360 * 360, 720 * xxx, 1440 * xxx, up to 1440 * 1440 dpi.
Memory:	256 mb, Not expandable.
Interface:	USB vers. 2.0 and Gigabit Ethernet.

Media:

Roll Media	Core	Out Diam.	Thickness	Size Width
1 Singel Roll	3"	170mm / 6.7"	0.3 - 1.3 mm	300 mm - 1625 mm wide (12" - 64").

Cutter:	No cutter in printer. Only manual cutting with knife.
Roll Paper:	One Core Auto TakeUp unit is standard.
Paper Types:	No Epson media avalible. Media from partners only. AVERY, 3M
Margins:	**Top:** Min 5mm. **Side, Bottom:** 5 to 25mm. End of Roll 77.4mm.
Weight:	Printer: 150 kg without InkCartridge and Media (4 man lift) Stand: 34 kg. AutoTake Up Unit 19 kg. Is the floor on the installation area steady and horizontal ?
Power:	Power Consumption are up tp 680 W in Operating Mode. Use 3 different AC conn.

EPSON Stylus Pro GS6000

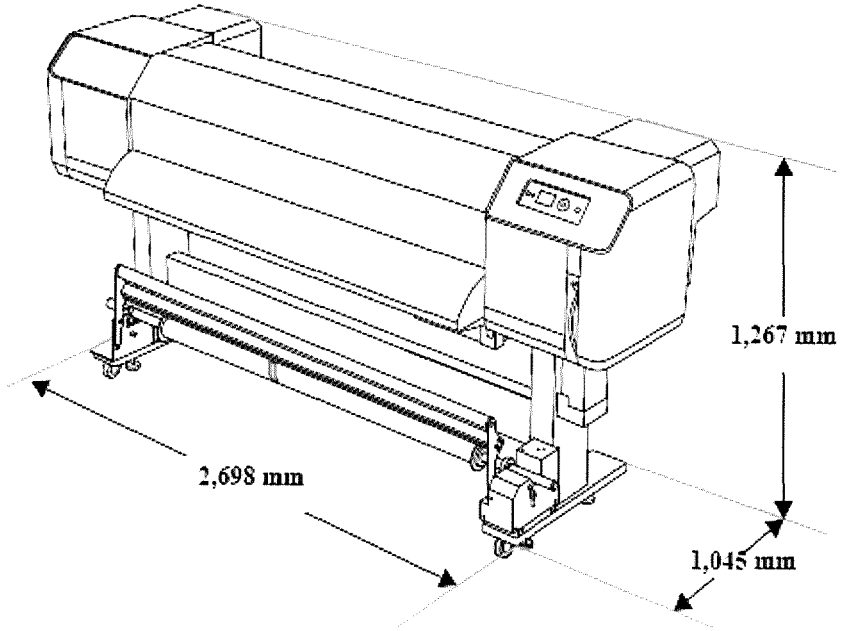
Printers / Specifications / Transportation

- **Size and Weight**

The Stylus Pro GS600 is a 64 inch width EPSON LFP printer.
The large size and weight of the product will make the support service more difficult than other models.
It is why it's necessary to take care of some items (instructions) before undertaking printer transport.
To lift printer you need to be at least minimum 4 persons. 6 is recommended.
Do not lift from the side with forklifts.

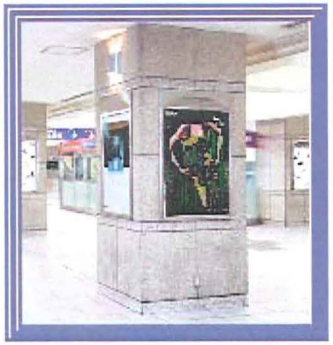
EPSON Stylus Pro GS6000

Printer Weight:	150 kg without InkCartridge and Media (minimum 4 man lift)
Stand Weight:	34 kg.
AutoTake Up Unit	19 kg.
Pallet Weight:	255kg



Read More
Service Manual
Chapter 1.3.1 / 6.2.2

EPSON Stylus Pro GS6000



Features / Media / Drivers

- **Epson will be supporting multiple solvent media suppliers.**

  * 3M and Avery will be prioritized for support.

  * Epson is currently working with both 3M and Avery to support their various warranty programs.

  * Print only on Banners, Vinyl, Backlight and Marking Films.

  * No Paper based media can be used in the GS6000 with solvent ink.

  * No Epson labeld media is sold.

- **Drivers / RIP Pograms.**

  * Epson will support different RIP Manufatures such as Onyx, Color Burst Pro, EFI.....

  * All Printouts will be done throu RIP firmwares.
    No driver for Windovs XP or Vista will be avalible for GS6000.

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www.epson.se

EPSON Stylus Pro GS6000

Solvent Ink.

- **IMPORTENT Solvent Ink facts.**

* Solvent ink, Do Not drink and Avoid get it in your Eays or on your Skin.
  The Solvent Ink may give Skin and Eay irritation.
  The Solvent Ink are Toxicity. Do Not drink.

* No water shall be in contact with any parts of the printer.
  No water shall be mixed with Solvent Ink. A chemical reaction will start harding components.

* Solvent Ink may give some smell.
  90% of the solvent ink evaporates during print.
  Solvent components are heavier than air and lands on the floor.
  VOC are below maximum legal obligations. (Volative Organic Component).

* Importent with good ventilation.

* Printer should not be used in temeratures above 60 degrees Celcius.
  Solvent Ink Flashing point is 71 degrees Celcius.

* The Ink is Industrial Waste and should not be poored down the zink.
  Handle the waste ink as Industrial Waste when disposal.

* Ink on covers, platics, clothes, floor or any other material will stay.
  You can clean ink on metall with cleaning fluid.

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Service Manual
Chapter 6.1

EPSON Stylus Pro GS6000

Ink Installation First Time / Head Wash.

- **First Time Power On!**

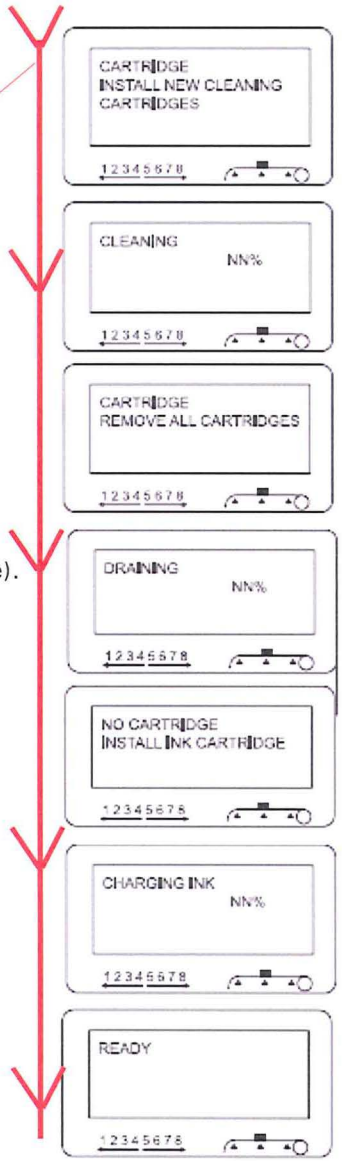
  * Printer is tested at Factory with Aquous Ink.
  * Printer is washed in Factory with Aquous Cleaning Liquid.
  * Printer is shipped to customer.
  * Printer must be Re - Cleaned with Solvent Cleaning Liquid. (Solvent Cleaning cart. can only be used once).
  * Printer is filled with Solvent Ink.

- **Ink System Unit Washing Steps.**

  If there is a Ink Nozzle problem, you can Re-Wash System from Maintenance Menu.

  * Go to MAINTENENCE Menu and select "HEAD WASH".
  * "DRAIN INK" Will start (if system is filled with ink).
  * "CLEAN" Cleaning Liquid will be charged in system from Cleaning Cartidges (T623000).
  * Remove Cleaning Cartidges.
  * Cleaning Liquid is Drained.
  * Ink Cartridges Installed.
  * Ink is Charging into system.

    When printer is not used for a log time it is best to DRAIN the printer from ink.
    Use the MAINTENANCE MENU / HEAD WASHING Menu from Control Panel.
    When printer ask for Ink Cartridges, Power Off printer.



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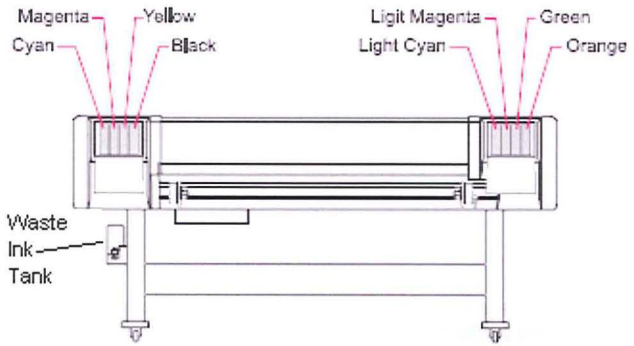
Service Manual
Chapter 1.4.2

EPSON Stylus Pro GS6000

Ink System and Supply.

- Intellidge Solvent cartridge system for ink level control even on re-inserted cartridges.
  LED ink status system on printer showing, warning ink low.
  The 950ml Solvent Ink cartridges is using a single size packaging and cartridge size.
  Printer can print 3 min with one cartridge missing before it stops.

Partnumber	Unit
C13T624100	Black (K) 950m
C13T624200	Cyan (C) 950ml
C13T624300	Magenta (M) 950ml
C13T624400	Yellow (Y) 950mler
C13T624500	Light Cyan (Lc) 950ml
C13T624600	Light Magenta (Lm) 950ml
C13T624700	Green (Gr) 950ml
C13T624800	Orange (Or) 950ml
C13T623000	Cleaning Cartridge (You need 8 for each printer).
C12C890611	Maintenance Kit (User Manintenance).
C12C890621	Ink Cleaner Kit (User Manintenance).



Printer Back Side

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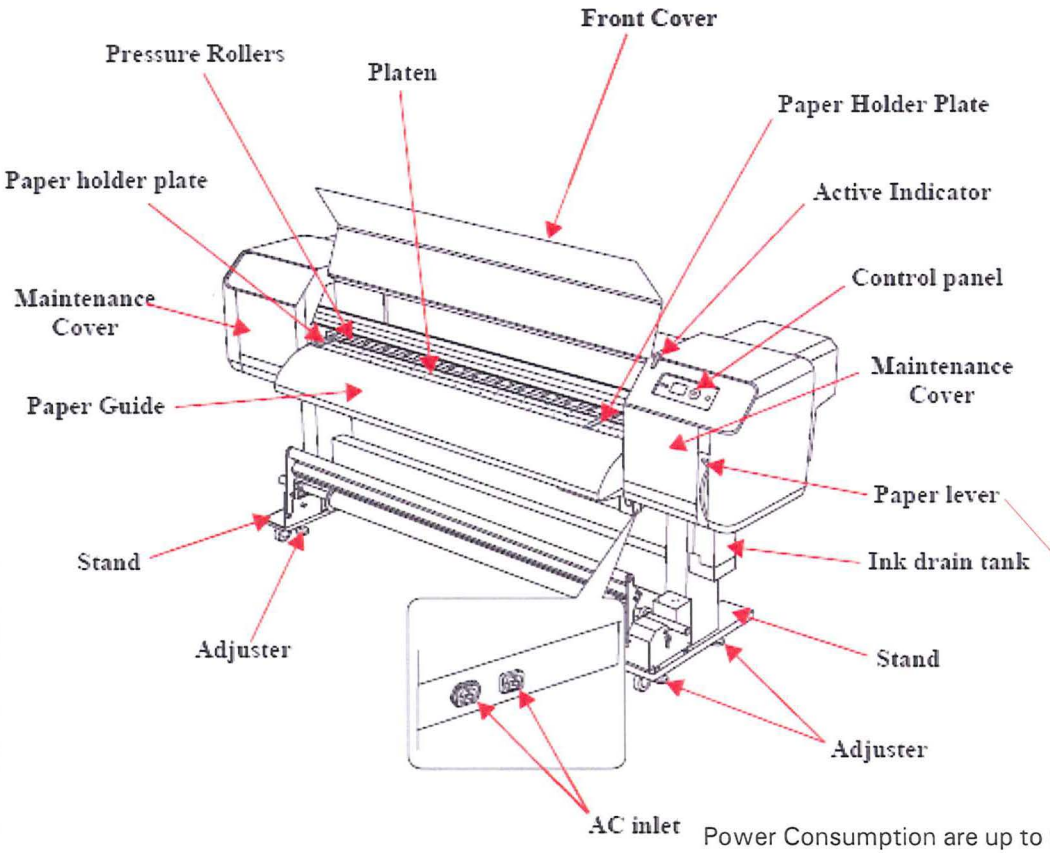
EPSON Stylus Pro GS6000

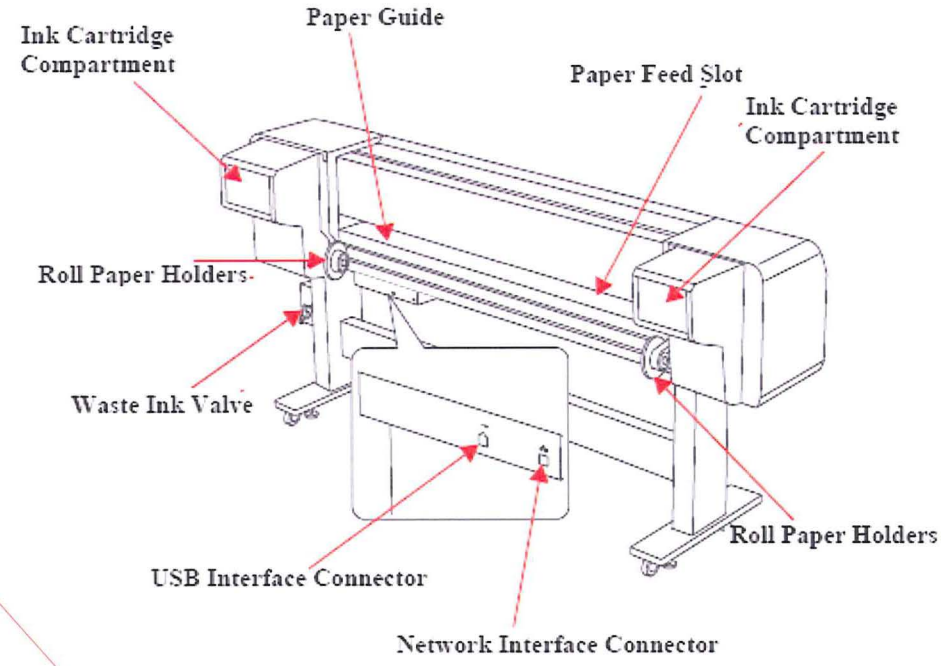
Printers External View, Interface and Units

- External View and Parts.

Printer Front



Printer Back



When media is not loaded.
Keep the Paper Lever Open/Up.
To save media Feed Roller.

Power Consumption are up to 680 W in Operating Mode.
Use 3 different AC conneactions.

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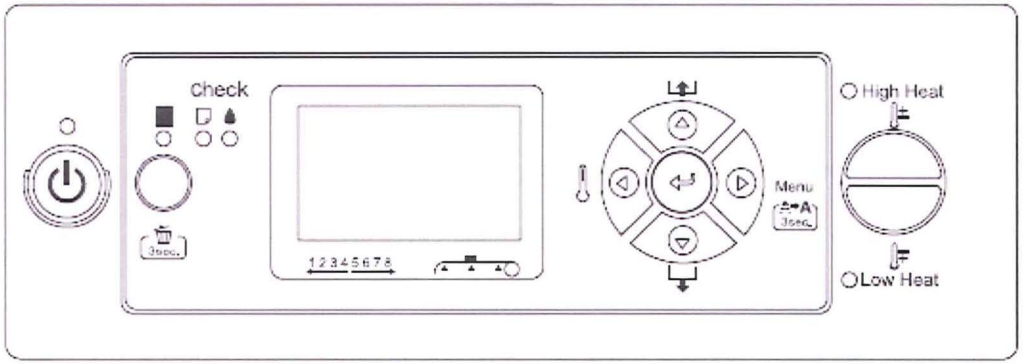
Service Manual
Chapter 1.3.2
Users Guide

EPSON Stylus Pro GS6000

Control Panel.

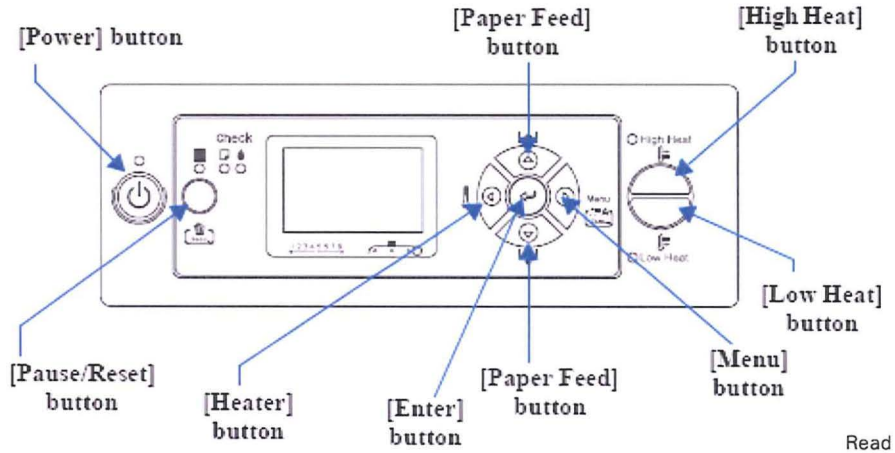


- **Button and Functions**

  Back luminated 2.5" LCD control panel.
  Control Panel buttons has 2 levels.

  * Singel Push
  * 3 Seconds Push

Button	Press Singel	Press 3 seconds.
Power	Power ON/OFF	---
Pause	Pause or Resume Situation	**Pause** Cancel Print Job
Menu >	Go to printer Menu (Ready) Go to printer Status Menu (Printing)	
Heater [<]	Select Heater Type 1. Pre Heater 2. Platen Heater 3. After Heater	**Cleaning [>]** Stop printing and Runs Heads Cleaning
High Heate	Increase the preset temperature of the heater.	
Low Heate	Decreases the preset temperature of the heater.	
Paper Feed [/\]	Paper feed for roll paper (reverse) Increse selected numerical value	
Paper Feed [\/]	Paper feed for roll paper (forward) Decrese selected numerical value	
Enter [<--I]	Select or execute parameter	



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Service Manual
Chapter 1.4
Users Guide

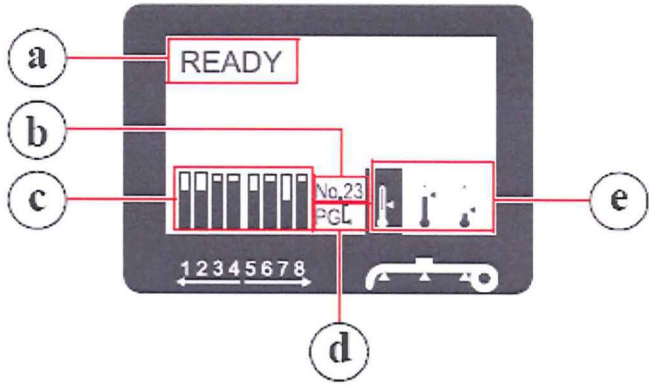
EPSON Stylus Pro GS6000

Control Panel.

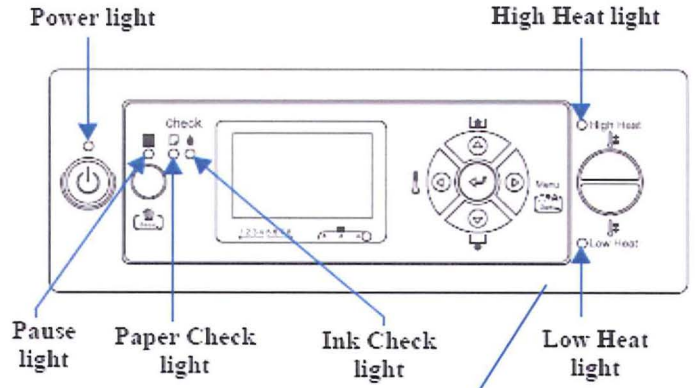
- The Control Panel with backlight on DISPLAY, and some LEDs and other indications.

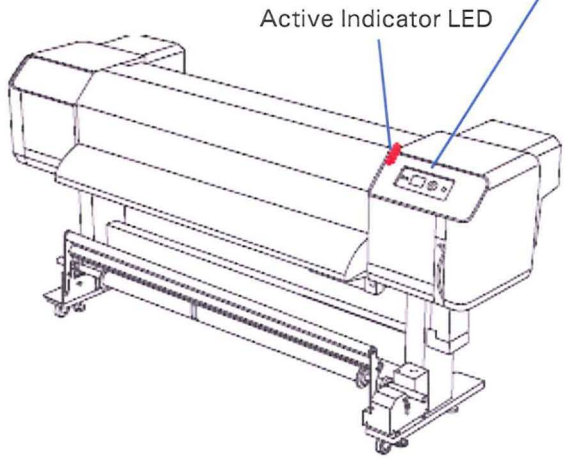
- Control Panel LED status Information.

LED	Color	Display	Printer Status
Power		On	The power is ON.
		Blink	Receiving data, cleaning or executing power off sequence
		Off	Printer is Power Off
Pause		On	Printer is in Pauses / Menu.
Media check		On	No media in printer.
		Blink	Media Jammed, Near End or Skewed. A maintenance call error is occurring.
Ink Check		On	Not installed, wrong or expired Ink Error
		Blink	Installed ink nearlly expired.
Low / High Heat			An combination of Led shows Heater Error
Active indicator		Blink	Printer Error occured.



Display
a. Message
b. Media Type
c. Ink Cartridge info.
d. Platen Gap
e. Heater Icon





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Service Manual
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Users Guide

EPSON Stylus Pro GS6000

Media Handling

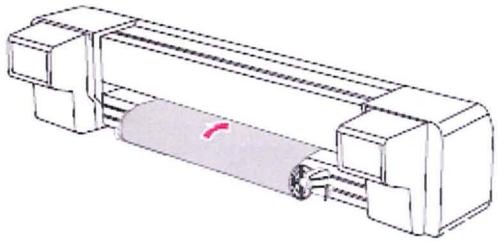
- **Media Feed**

Only Roll media up to 64 inch can be used in printer. Paper based Media can not be used in Solvent Ink printer.
This printer uses friction feed to carry out precise feeding of roll media.
The feed mechanism unit is configured from a grid roller and pressurizing and follower roller assemblies mounted on the back of the CR guide rail opposite the front surface.
When media is not loaded. Keep the Paper Lever Open / Up. To save media Feed Roller from beeing deformed.
Auto take-up reel unit is standard. You can wind the media forward or backward on the Take Up Reel.

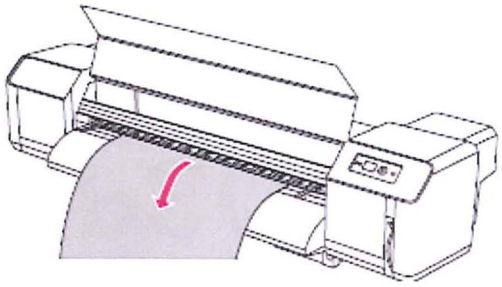
- **Media Cutter.**

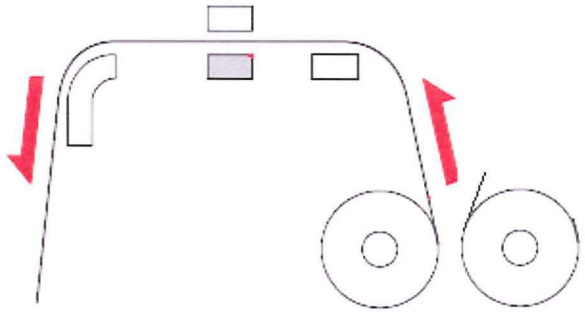
This printer has no media cutter. It is only possible to do a manual cut with knife.

Printer Back Side

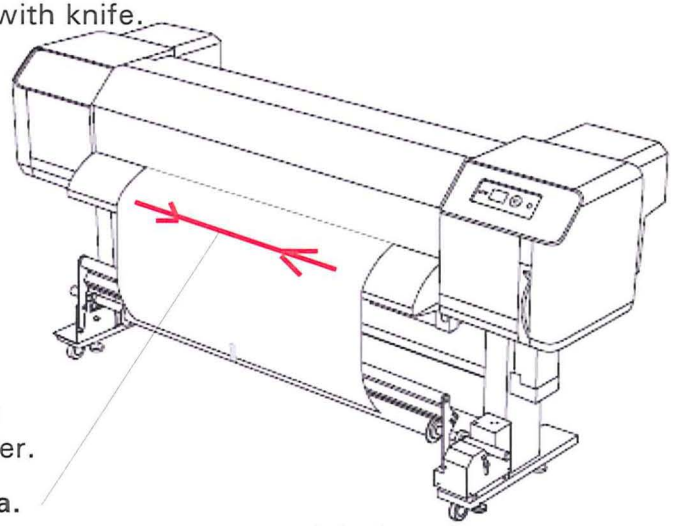


Printer Front Side





Media.
You can load media
both ways from roller.



Load Media.
Media should be feed in the middel of media path.
Media sensor is in the middle of path.

Slå aldrig av maskinen.

Stylus Pro GS6000

Control Panel.

The **MENU** enables you to make settings to parameters and value you normally make in printer driver.
Note that application programs may send commands to the printer that overrides Menu Settings.
To see the current settings, print a STATUS SHEET.
Step in MENU with MENU Key!

MENU	ITEM	PARAMETER / VALUE
PRINTER SET UP	- SIDE MARGIN	5 - 25 mm
	- PAPER SIZE CHECK	**On** / Off
	- PAPER SKEW CHECK	**On** / Off
	- PRINT NOZZLE PATTERN	**Off** / Every Page / Every 10 page
	- HEATING TIME	Off / **10 min** - 240 min.
	- FLUSH ONTO PAPER	**Yes** / No
	- FLUSHING FREQUENCY	**5 Pass** / 1 - 999 Pass rengöring
	- PAPER ORIGINAL SETUP	**0 mm** - 800 mm
	- AUTO TAKE-UP REEL	**On** / Off
	- HEAD FAN (Cooling fan)	**On** / Off kyler printhuvud
	- REGULAR CLEANING	Off, 1h, 2h, 3h, 4h, 5h, **6h**, 9h, 12h, 18h, 24h
	- INITIALIZE SETTING	**Execute** factory default
PAPER SET UP	- PAPER TYPE	**Standard** / Paper No.1 - 30
	- PAPER SETUP	**Standard** / Paper No.1 - 30
MAINTENANCE	- CLEANING (Very light)	**Execute**
	- CLEANING (Light)	**Execute**
	- CLEANING (Medium)	**Execute**
	- CLEANING (Heavy)	**Execute**
	- HEAD WASHING	**Execute**
Run to get Carriage free!	- CARRIAGE MAINTENANCE	**Execute** carriern går åt hill höger lucka
	- CLOCK SETTING	MM / DD / YY HH:MM
	- CONTRAST ADJUSTMENT	-20 - 0 - +20
TEST PRINT	- NOZZLE Pattern	**Start Print**
	- STATUS Sheet	**Start Print**
	- NETWORK STATUS Sheet	**Stat Print**
	- JOB INFORMATION	**Start Print**
	- CUSTOM PAPER	**Start Print**
PRINTER STATUS	- VERSION	t0xxxx-xx.xx.xxxx
	- PRINTABLE PAGE	nnnnn Pages
	- INK LEVEL	nn %
	- USAGE COUNT	INK xxxxx.xml Paper xxxxx.xcm
	- CLEAR USAGE COUNT	Ink Execute Paper Execute
	- JOB HISTORY	No. 0 - No. 9 INK xxxxx.xml Paper xxx.x cm2
	- TOTAL PRINTS	nnnnn Pages
	- EDM STATUS	Not Started / Enabled / Disabled Last Uploaded MM / DD / YY HH:MM GMT Not Uploaded
NETWORK SET UP	- NETWORK SETUP	Disabled / Enabled
	- IP ADDRESS SETTING	Auto / Panel
	- IP Address	192.168.192.168
	- SUBNET Net Mask	255.255.255.000
	- DEFAULT Gateway	255.255.255.255
	- BONJOUR	On / Off
	- INIT NETWORK SETTING	Execute

hög kvalitet
dutt av
sidan av
utskrift

EPSON Stylus Pro GS6000

Control Panel / Test Prints.

Test print menu **TEST PRINT**

Nozzle Check Pattern Printing
NOZZLE CHECK

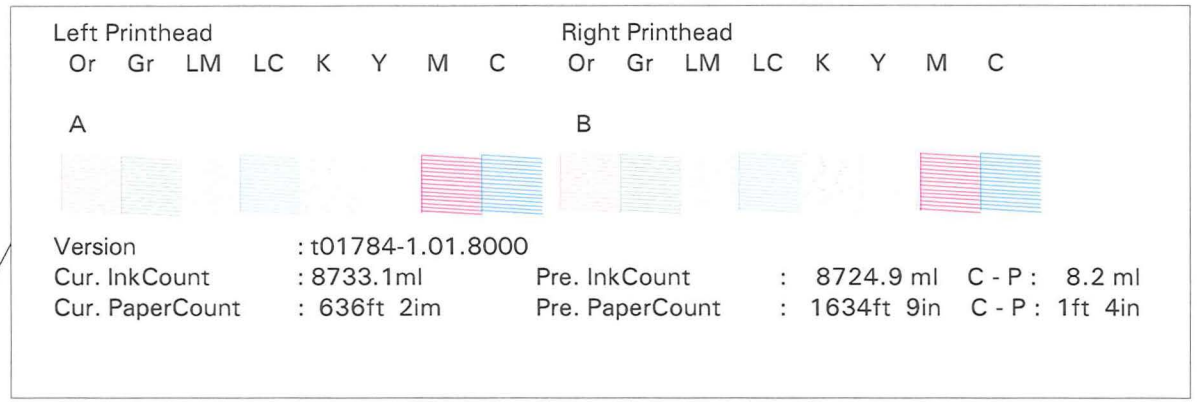
Patterns is printed if:

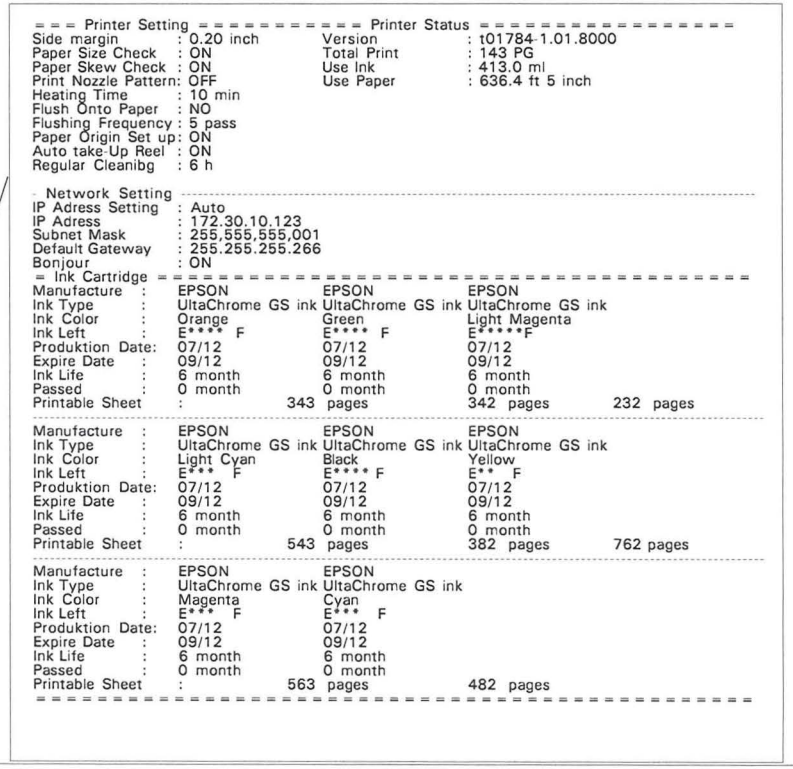
* PRINT NOZZLE PATTERN = On
  OFF = Do not print.
  ON = Print before EVERY Print.
  ON = Print EVERY 10 Pages.

Status Printing **STATUS CHECK**

Job Information Print
JOB INFO

User Paper Setting Print
CUSTOM PAPER


Left Printhead
Or Gr LM LC K Y M C
Right Printhead
Or Gr LM LC K Y M C
A
B
Version : t01784-1.01.8000
Cur. InkCount : 8733.1ml
Pre. InkCount : 8724.9 ml C - P : 8.2 ml
Cur. PaperCount : 636ft 2im
Pre. PaperCount : 1634ft 9in C - P : 1ft 4in



```
=== Printer Setting ========== Printer Status ==================
Side margin        : 0.20 inch      Version          : t01784-1.01.8000
Paper Size Check   : ON             Total Print      : 143 PG
Paper Skew Check   : ON             Use Ink          : 413.0 ml
Print Nozzle Pattern: OFF           Use Paper        : 636.4 ft 5 inch
Heating Time       : 10 min
Flush Onto Paper   : NO
Flushing Frequency : 5 pass
Paper Origin Set up: ON
Auto take-Up Reel  : ON
Regular Cleanibg   : 6 h

 Network Setting ------------------------------------------------
IP Adress Setting  : Auto
IP Adress          : 172.30.10.123
Subnet Mask        : 255,555,555,001
Default Gateway    : 255.255.255.266
Bonjour            : ON
= Ink Cartridge ============================================
Manufacture   :  EPSON              EPSON              EPSON
Ink Type      :  UltaChrome GS ink  UltaChrome GS ink  UltaChrome GS ink
Ink Color     :  Orange             Green              Light Magenta
Ink Left      :  E****  F           E****  F           E*****F
Produktion Date: 07/12              07/12              07/12
Expire Date   :  09/12              09/12              09/12
Ink Life      :  6 month            6 month            6 month
Passed        :  0 month            0 month            0 month
Printable Sheet :          343 pages          342 pages          232 pages
-----------------------------------------------------------------
Manufacture   :  EPSON              EPSON              EPSON
Ink Type      :  UltaChrome GS ink  UltaChrome GS ink  UltaChrome GS ink
Ink Color     :  Light Cyan         Black              Yellow
Ink Left      :  E***  F            E****  F           E**  F
Produktion Date: 07/12              07/12              07/12
Expire Date   :  09/12              09/12              09/12
Ink Life      :  6 month            6 month            6 month
Passed        :  0 month            0 month            0 month
Printable Sheet :          543 pages          382 pages          762 pages
-----------------------------------------------------------------
Manufacture   :  EPSON              EPSON
Ink Type      :  UltaChrome GS ink  UltaChrome GS ink
Ink Color     :  Magenta            Cyan
Ink Left      :  E***  F            E***  F
Produktion Date: 07/12              07/12
Expire Date   :  09/12              09/12
Ink Life      :  6 month            6 month
Passed        :  0 month            0 month
Printable Sheet :          563 pages          482 pages
=================================================================
```

Read More
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EPSON Stylus Pro GS6000

Control Panel

- For Service purpose some **Power On Tests** are avalible.

- Maintenance Mode (for Customer)

(Pause + PowerOn)

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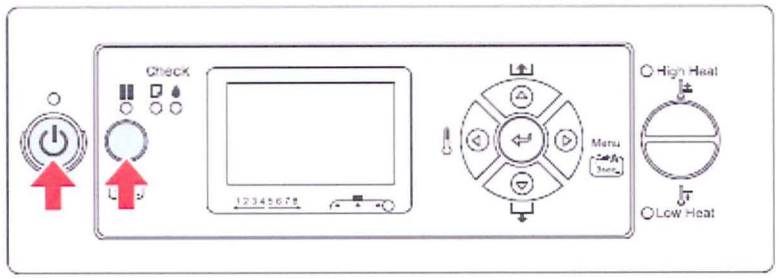
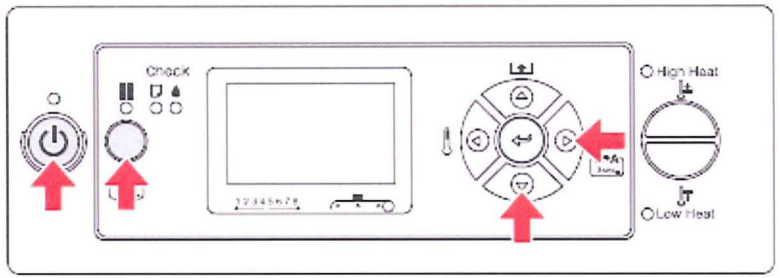
LANGUAGE	ENGLISH FRENCH ITALIAN GERMAN SPANISH PORTUGUE DUTCH JAPANESE	You can select the language to be displayed on the LCD panel.
LENGTH UNIT	METRIC FEET/INCH	You can select a unit of measurement to use to display length.
THERMP. UNIT	0C F	You can select a thermometer unit.
DEFAULT PANEL	EXECUTE	You can set all setting values you made in the Menu mode to their factory set value.



- Service Man. Mode. (for Service)

(Pause + Menu> + PaperFeed ▼ + PowerOn)

Se Service Manual 1.4.4 / 29



To adjust and work on the GS6000 printer you need to have "Service Program" installed on you PC.
Some adjustments and set up can be done from Control Panel.
Maintenance Reset can <u>only</u> be done from "Service Program" program.

- Firmware Download. (for Service)

(Menu> + < + Paper Feed/\ + Paper FeedV + PowerOn)

Se Service Manual (Read 5.6.2 / 209)

- NVRAM Back Up Mode. (for Service)

(Pause + Menu> + Paper FeedV + Power On)

Se Service Manual (Read 5.2 / 185)

Read More
Service Manual
Chapter 1.4.3 / 1.4.4

EPSON Stylus Pro GS6000

Training Exercise 1

- Power on printer
- Check Power On routine.
- Check the 3 AC plugs and how to set up and AC connect the prnter.
- Check Ink Cartridge and Maintenance Tank
- Check Media and Media Feed Paths
- Check TakeUp Unit and how to load Meda.
- Check Control Panel Buttons and their functions.
- Check how to change Heater temperature on After, Plaren and Pre Heaters.
- Select MENU and step throu setup parameters.
- Select MENU and Test Print Menu and do some testprints.
- Enter Manintenance Mode 1 and Service Man. Mode.

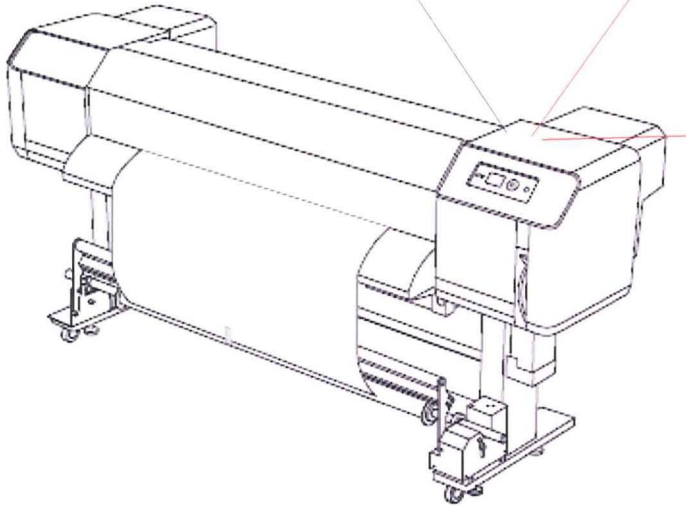
Read More
Service Manual

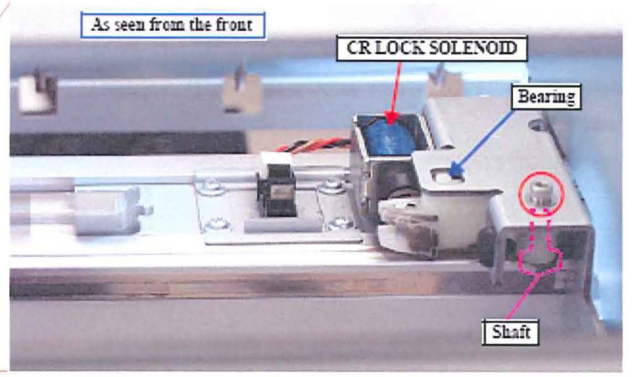
EPSON Stylus Pro GS6000

Free Carriage / Print Head.

- From the MENU / MAINTENANCE / CARRIAGE MAINTENANCE and execute.
  Carriage vill move out to the left and will be possibel to access. (Se page 13).

- When Carriage is in Home position, you can loosen the CR Lock.
  Take off Top Cover and you will access the CR LOCK SOLENOID and free carriage.
  It is possible to reach solenoid without taking off Top Cover if you know what to do.





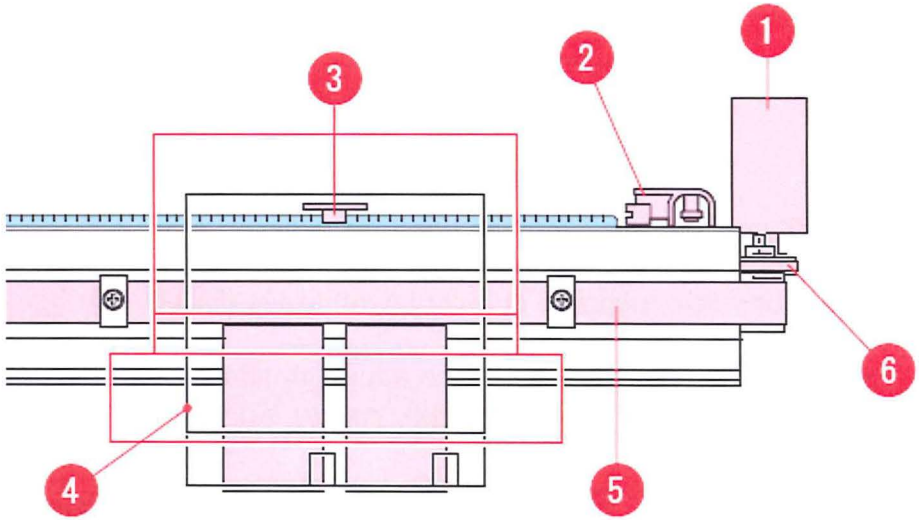
Read More
Service Manual
Chapter 1.4.2 / 4.4.9.4

EPSON Stylus Pro GS6000

Operating Principles

- **Carriage Mechanism.**

The two printhead are mounted in a Carriage that moves left / right during printing.
The position of carriage is controlled by an CR Encoder that reads a Scale Pattern with high presicion.
The CR Motor has an Reduction Belt that conveys the CR Motor drive force to carraige.
The Carriage Belt is a steel belt to get an accurate and stabile carriage movement.



1 - CR Motor	The motor to drive the Carriage Unit.
2 - CR Lock	Locks the Carriage Unit to the home position. It is driven by a solenoid.
3 - CR Encoder	Detects the scale patterns to control the position of the Carriage Unit.
4 - CR Cursor Assy	The unit mounting the Print Heads.
5 - CR Belt	Conveys the drive force of the CR Motor to the Carriage Unit.
6 - CR Reduction Belt	Conveys the drive force of the CR motor to the CR Belt.

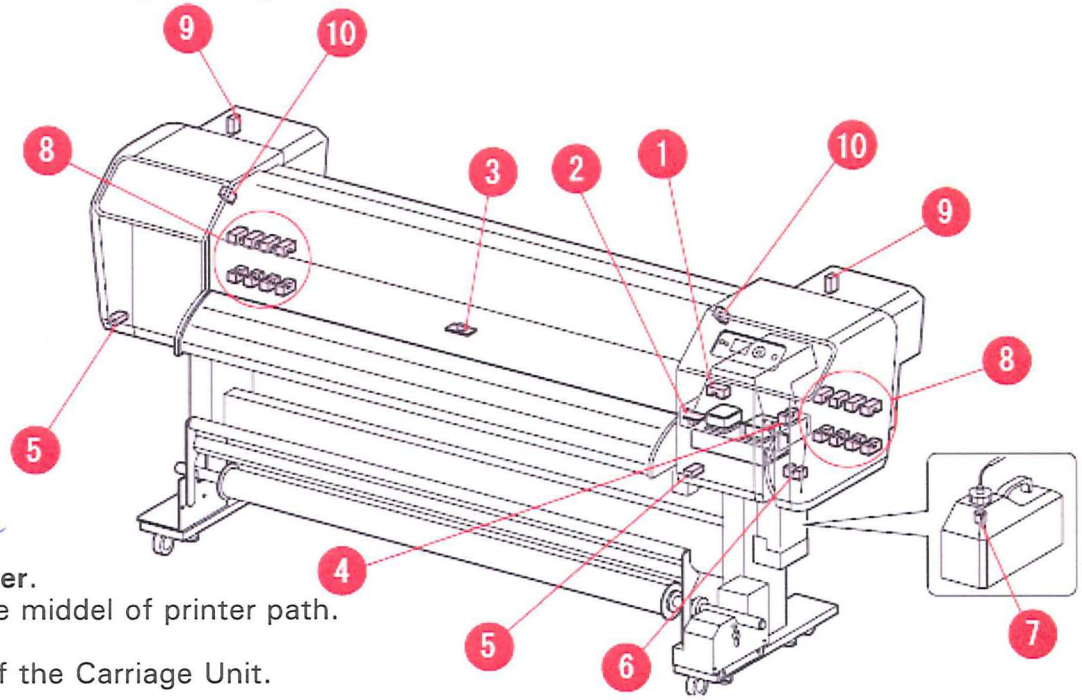
Read More
Service Manual
Chapter 2.3

EPSON Stylus Pro GS6000

Operating Principles

- **Sensors**

  - The different Sensors and their purpose in printer.



1 - PG HP Sensor Detects the home position of the platen gap.

2 - Paper Edge Sensor Detects the right and left ends of paper.

3 - Paper Rear Sensor **Detects the presence of paper.**
Allways load the paper in the middel of printer path.

4 - CR HP Sensor Detects the home position of the Carriage Unit.

5 - M Cover Sensors Detect the opening/closing status of the Maintenance Covers.

6 - Lever Sensor Detects the position of the paper lever.

7 - Waste Fluid Level Switch Assy
Detects the amount of waste ink. If the waste ink exceeds specified level, the sensor reacts.
Always check if sensor is in correct position to indicate Waste Ink Full.

8 - Sub Tank Sensors Detect the remaining ink in the Sub Tanks.
Each tank has two sensors, and the remaining ink is detected.

9 - IC Cover Sensors Detect the opening/closing status of the Ink Covers.

10 - F Cover Sensors Detect the opening/closing status of the Front Cover.

Read More
Service Manual
Chapter 2.7 / 4.4.1.2

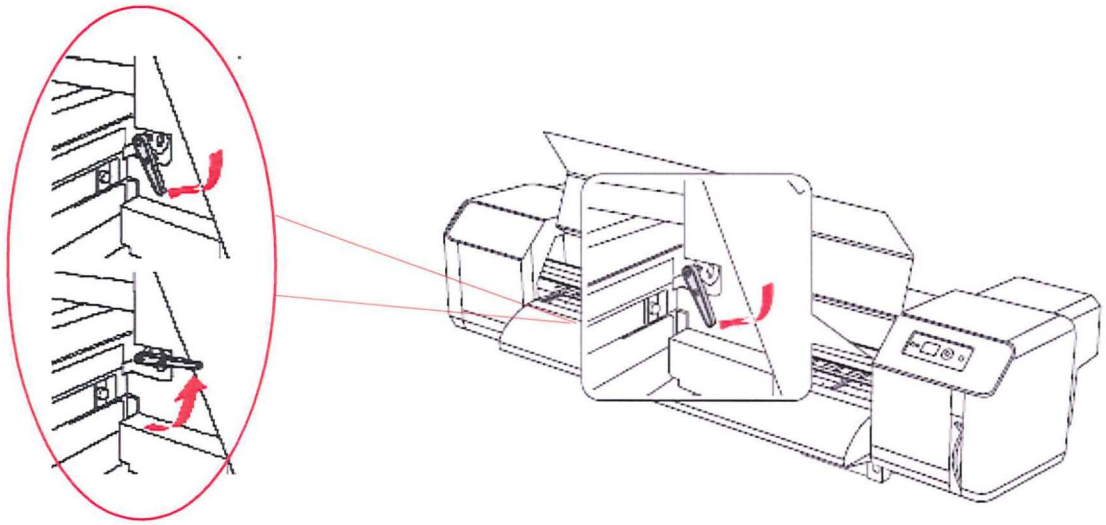
EPSON Stylus Pro GS6000

Operating Principles

- **Head Height / Platen Gap Adjustment**

Head Height / Platen Gap can be manual adjusted on the Carriage Unit to the correct distance.
Head Height can be ajusted in 2 different positions, **Normal** (0,3mm) or **High** (1,3mm) depending on media used.

Customer must adjust this to correct position for the used printed media.
Incorrect adjusted Head Height can result in bad or poor prints or may give banding problems.



Read More
Service Manual
Chapter

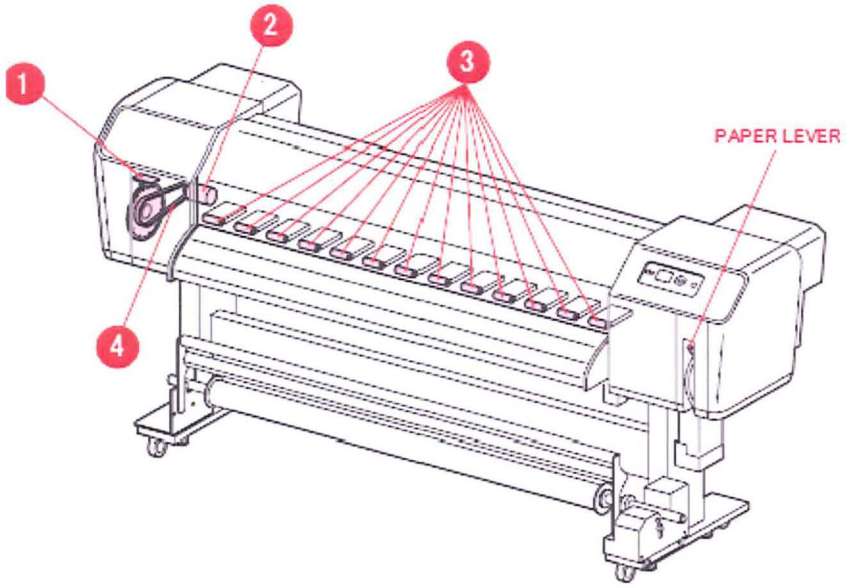
EPSON Stylus Pro GS6000

Operating Principles

- Media Feed Mechanism

Rotation drive of the PF Motor is transmitted to the grid roller through the Timing Belt.
The control of the revolution speed and the steps of revolution are made with the PF Encoder Sensor by reading the values of the PF Scale mounted on the same shaft as the grid roller.
Paper based Media should not be used in this printer.
When media is not loaded. Keep the Paper Lever Open / Up. To save media Feed roller from getting deformated.
Each Feed / Pressure Roller can be changed if needed.

The media feed mechanism consists of the following components.



1 - PF Encoder Detects the scale patterns to control the paper feeding.

2 - PF Motor The motor to drive the Feed Roller.

3 - Pressure Rollers Hold and feed paper. By switching the Paper Lever up and down, they separate from the Feed Roller or move back in position.

4 - PF Reduction Belt Conveys the drive force of the PF motor to the Feed Roller.

Read More
Service Manual
Chapter 2.4

EPSON Stylus Pro GS6000

Operating Principles

- **Fan / Media Suction Fans.**

To stabilize the media feeding, this printer is equipped with 4 vaccum suction fans under platen.
The fan sucks the air from inside of the printer, and draws the media to the platen.
They work to draw air through holes on the platen in the backside of the media path.
The fans are using 24v DC motor

The printer has also other fans for cooling of heater and other units of the printer.

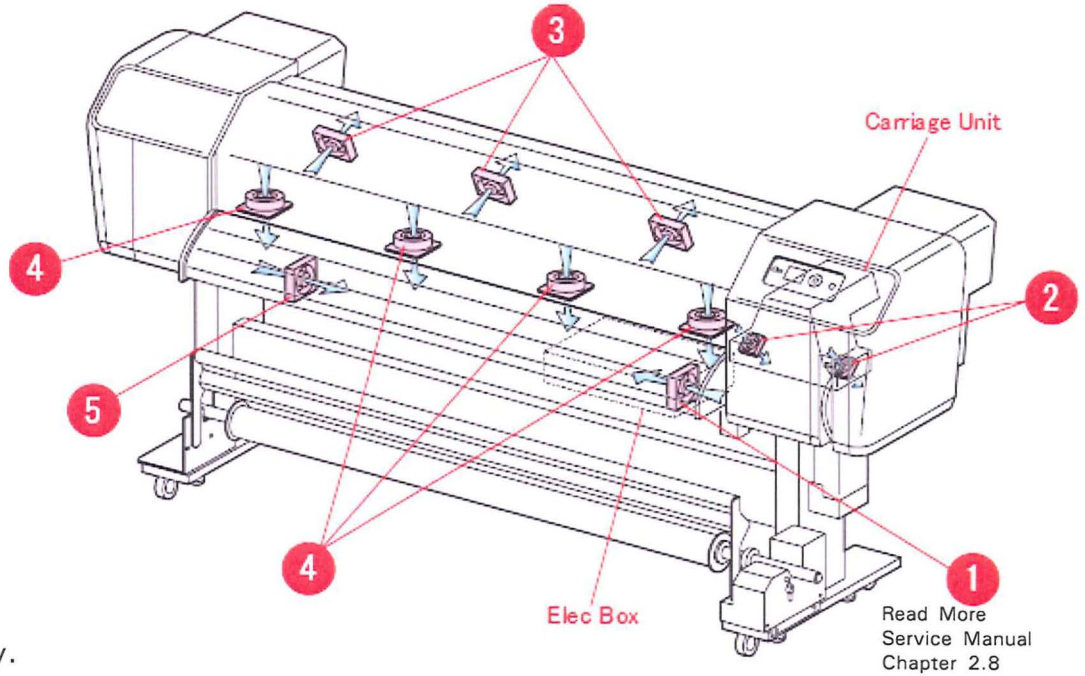
1 - Cooling Fan PE
Cools the Main Board Assembly.

2 - Cooling Fans
Prevent dew condensation on the platen.

3 - Cooling Fans (24V)
Sucks the mist of ink when printing so as to prevent contamination of the inside.

4 - Vacuum Fans
Suck media to the platen to stabilize the position of media when printing.

5 - Heater Board Cooling Fan
Cools the Heater Controll Board Assembly.



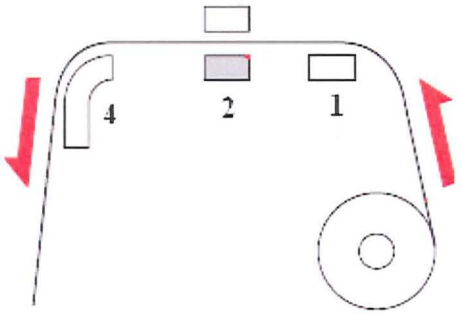
Read More
Service Manual
Chapter 2.8

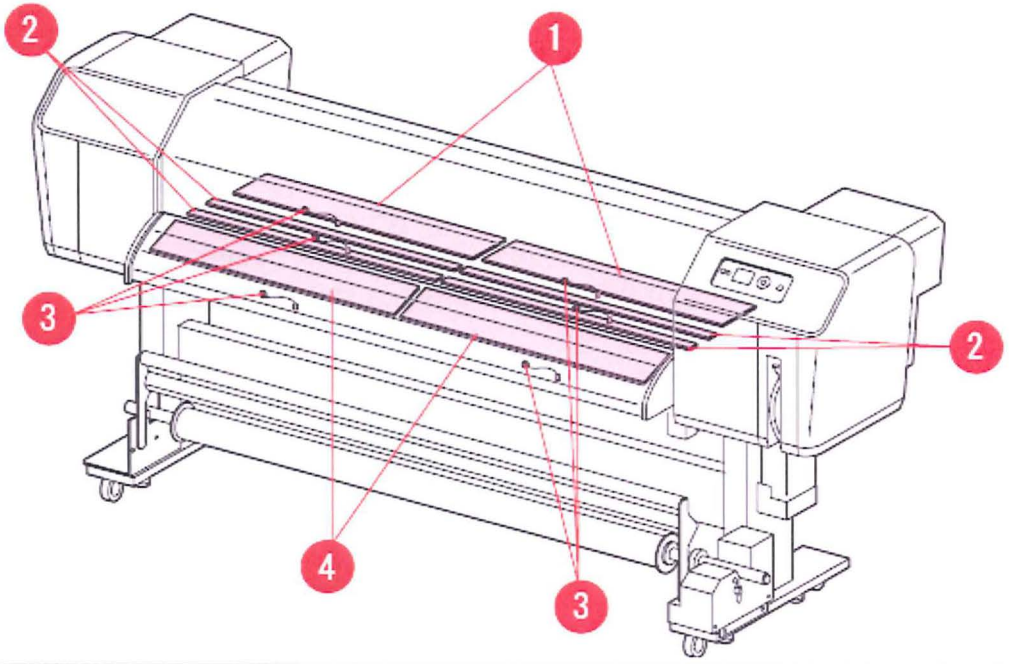
EPSON Stylus Pro GS6000

Operating Principles

- **Heaters.**

Printer has 3 different heaters to heat media, **Pre**, **Platen** and **After printing**. Customer can from control panel increase or decrease the heating from 30 to 50 degree C to get the best result in prints for the used media. This Pre-heating combined with the heating on the Platen Heaters and the After Heaters allows raising the media temperature successfully after the media feeding starts.
Temperature are controlled of different thermistors.
Incorrect heating may result in printouts with poor quality.
Printouts will not start untill the set temperarure are reached.
Different media have different heat temperatures for best result.





1 - Pre Heaters Heat media before printing. The pre-heating also prevents the media from deforming when heating during printing operation.

2 - Platen Heaters Heat media to control the sizes of dots landed on the paper (so as to prevent the ink to spread).

3 - Thermistors Detect the temperature of each heater.

4 - After Heaters Heat media to dry ink after printing.

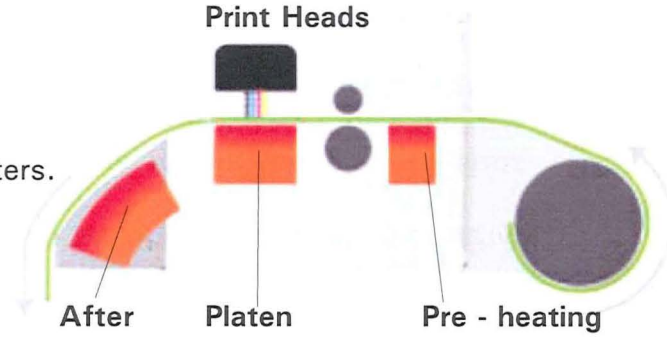
Read More
Service Manual
Chapter 2.5 / 4.4.8

EPSON Stylus Pro GS6000

Operating Principles

- **Correct heating.**

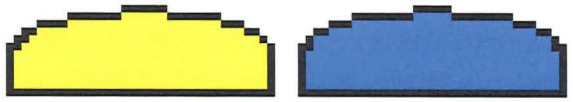
Printer has 3 different heaters to heat media. **Pre, Platen** and **After** heaters.
Customer can from control panel increase or decrease the heating
from 30 to 50 degree C.
To get the best result in prints for the used media.
If the heating is incorrect you will get some defects in printout.



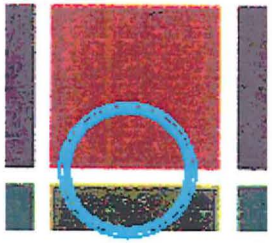
Heater To Cold

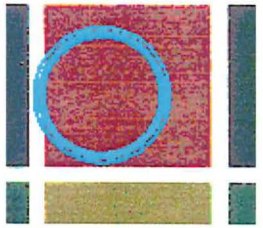
Heater To Hot

Ink dry to slow = Color MIX gives banding.



Ink Dry to fast = Blank spaces gives banding.

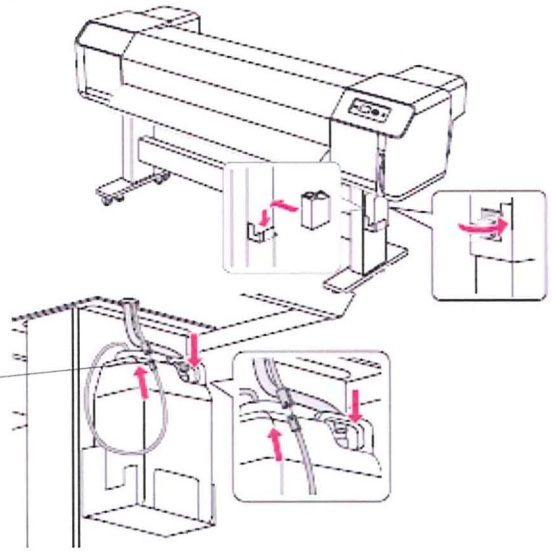




Read More
Service Manual
Chapter

EPSON Stylus Pro GS6000

Operating Principles



- **Waste Ink Tank / Ink Cartridges.**

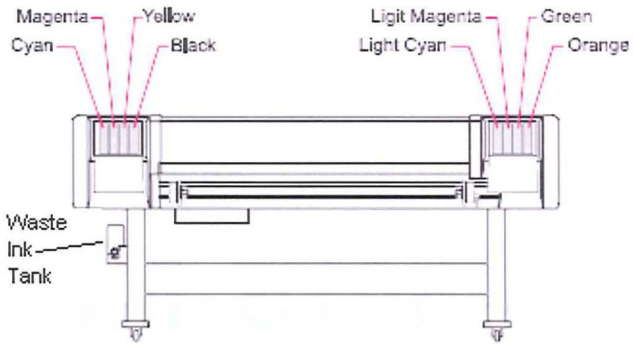
  This printer has 1 Waste Ink Tank (Maintenance Tanks) located on the right side of printer and 8 Ink Cartridges mounted on back side of printer.

- **Waste Ink Tank**

  One Waste Ink Tank on printers right side. Tank has a Waste Ink Full Sensor and a valve for open / close when empty tank. Do not trow away this tank!
  Check so that Ink Tube and Sensor is correct mounted into tank.
  If not, ink may land on the floor with unpleasant result!

- **Ink Cartridges**

  Each Ink Cartridges has a memory chip (CSIC) with Information about unit.
  Selection of ink types, detection of cartridges and the amount of remaining ink are controlled and stores various pieces of information, such as ink colors and remaining amount of ink.
  Note: "Chip" Levels in Ink Cartridges is not a 100% excact, it may wary between cartridges.



INK INFORMATION MENU

* Manufacture	Manufacture logo / information
* Ink Type	Ink type information (dye/pigment)
* Ink Color	Ink color information
* Ink Left	Ink remaining of each ink cartridge
* Production Date	Product date information in <YY>/<MM> form.
* Expire Date	Ink expire date of each ink cartridge
* Ink Life	Ink life after opend cartridge information
* Passed Time	Time after opened ink cartridge.

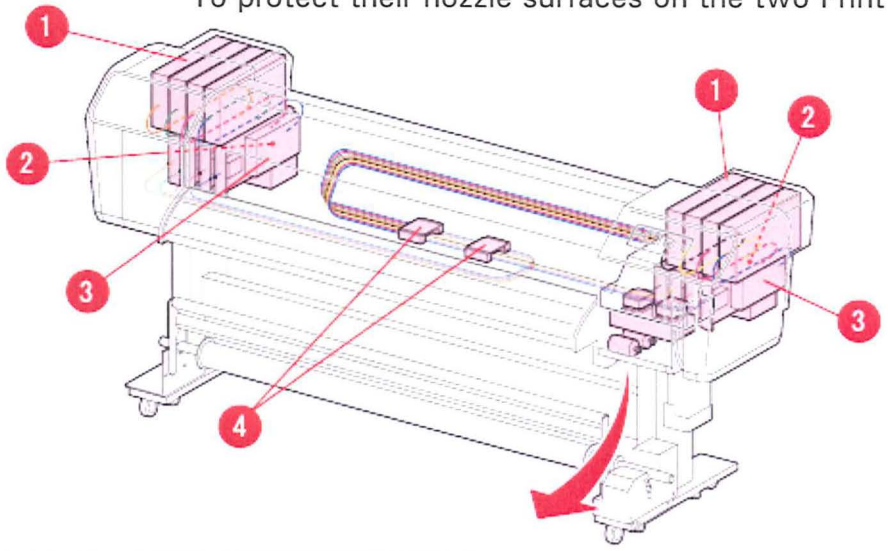
Read More
Service Manual
Chapter2.2./ 2.7 / 4.4.1.2

EPSON Stylus Pro GS6000

Operating Principles

- Ink System.

The 8 Ink Cartridges is storing ink. They have a CSIC chip that have information on Ink Status.
The two way valves are located in the ink flow between the Ink Cartridges and the Sub Tanks.
The Sub Tanks that relays ink, are located between the Ink Cartridges and the Print Head.
They prevent stopping printing due to an ink end during printing operation. Before Ink End it is possible to print for 3 minutes. During printing it is possible to change ink cartdidge without printer is stopping.
If Ink End is shown it is from the Sub Tank that is out of Ink. Not the Ink Cartridges.
The Valves Assembly are driven by solenoids. They operate when carrying out the initial ink charge.
The Carriage Unit has two print head mounted in unit. Each head has eight 180 nozzle-rows (2*180).
Head Cleaner cleans the nozzle surface of the Print Head with a rubber blade.
The Flushing Box is where the ink is flushed out during cleaning.
The printer has 2 pumps, used to suck ink at cleaning and at init ink fill.
To protect their nozzle surfaces on the two Print Head, it is put into a Print Head Caps when not in use.



1 - Ink Cartridges

2 - Two-way valves

3 - Sub Tanks

4 - Valve Assembly (Init Ink)

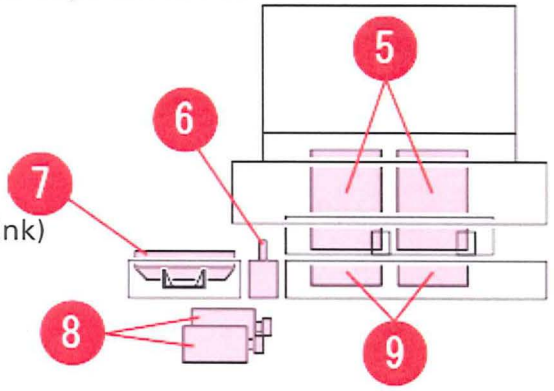
5 - Print Heads

6 - Head Cleaner

7 - Flushing Box

8 - Pump Assys

9 - Caps



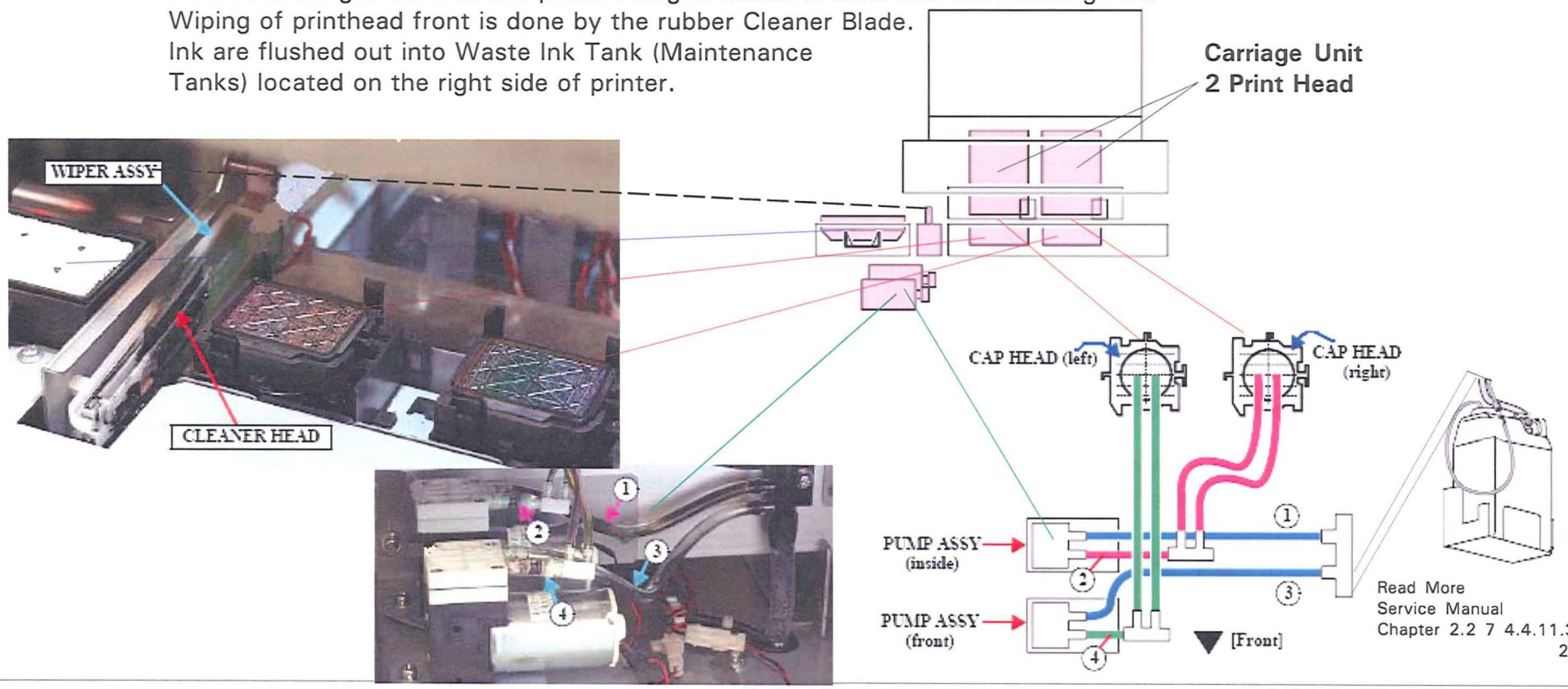
Read More
Service Manual
Chapter 2.2

EPSON Stylus Pro GS6000

Operating Principles

- **Cleaning Unit.**

Under normal working condition it is best NOT to Power Off printer. To keep print quality up.
You can set the PRINTER SETUP / REGULAR CLEANING to clean automatic every 1 to 24 hour after last printout.
This printer has 2 printhead, when they are in home position they are capped in Capping Unit.
If cleaning is needed pump starts and creates an vacum between Capping Unit and Print Head.
It is importent that the Capping Unit has an airtight seal against the printhead to get a good cleaning.
No nozzle firing is done at this point. Firing of nozzle is done into the Flushing Pad.
Wiping of printhead front is done by the rubber Cleaner Blade.
Ink are flushed out into Waste Ink Tank (Maintenance Tanks) located on the right side of printer.



Read More
Service Manual
Chapter 2.2 7 4.4.11.3

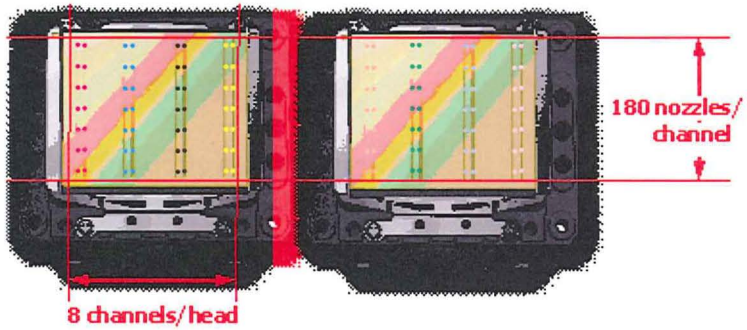
EPSON Stylus Pro GS6000

Operating Principles

- **Print Head.**

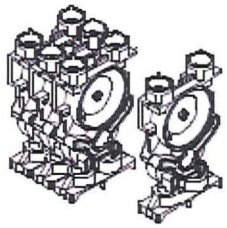
Each printer has 2 Print Heads with different Head Rank numbers. Whenever the PRINT HEAD is reinstalled or replaced, the corresponding adjustment must be carried out. When replacing the PRINT HEAD with a new one, write down the 21-digit Head Rank ID indicated on the ID label affixed to the new PRINT HEAD.

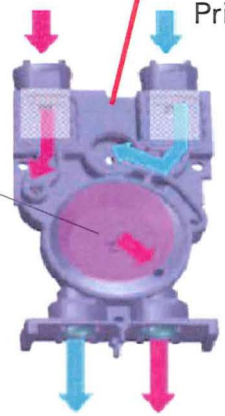
byt bägge huvuna samtidigt på gamal maskin.

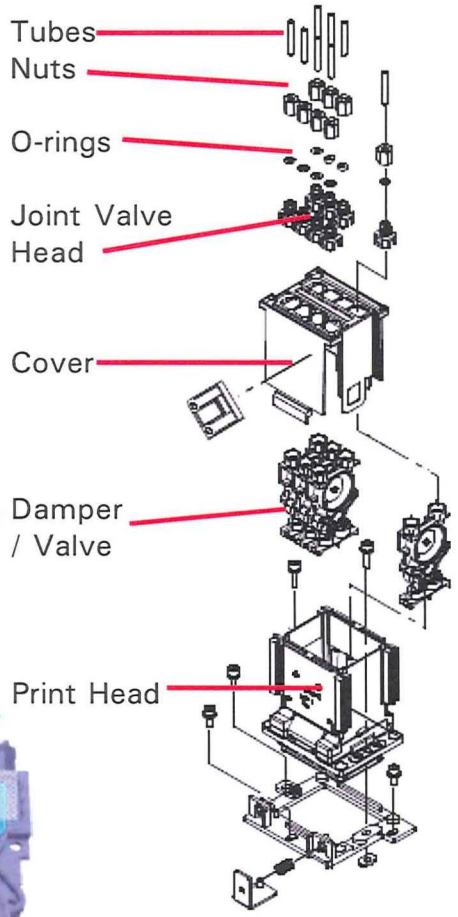


- **Damper / Valve.**

1 damper is used for the ink supply of 2 colors. (Same damper as in SP11880).
Do not use the damper for SP11880 because they are washed in water. GS6000 Dampers are marked with a blue dot! Always change Damper when printhead is changed.
4 Dampers in each print head.





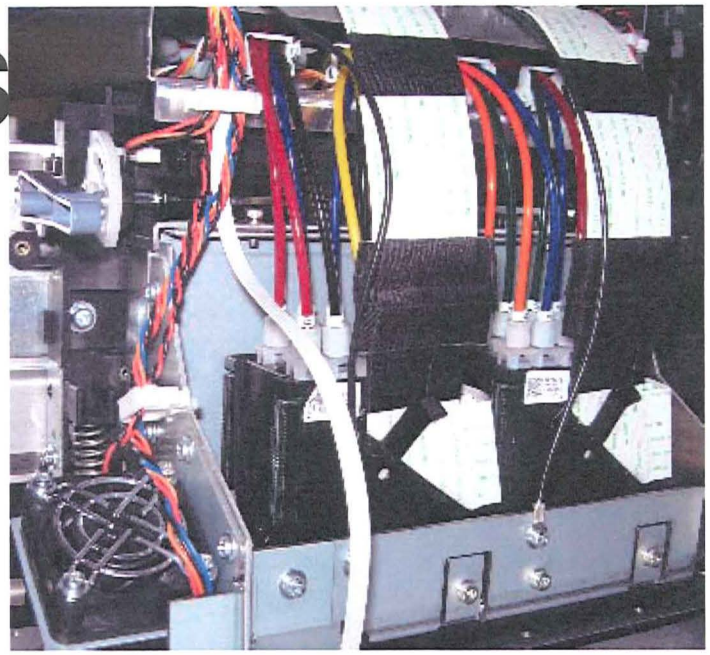


Note:
For Adjustments Read Chapter 5.
Head Rank input Read Chapter 5.4

Read More
Service Manual
Chapter 2.2 / 4.4.11

EPSON Stylus Pro GS

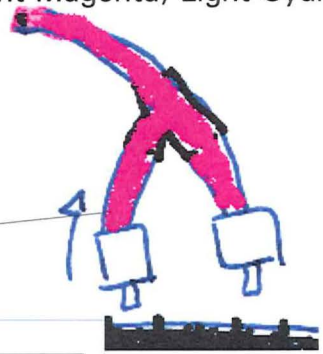
Operating Principles



- **Print Heads.** (takes at least 3 hours to change).

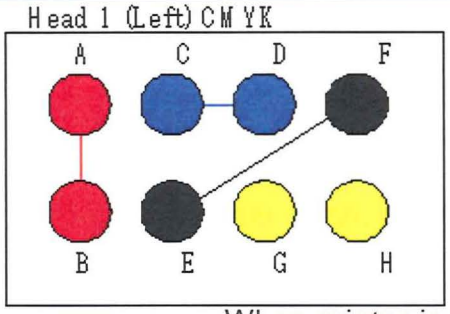
Stylus Pro GS6000 has 2 printheads mounted in the carriage unit.
Each head prints with 180 nozzles in color. To get higer
resolutions it prints with 2 * 180 = 360 Nozzles / dpi.
It use 8 Ink Cartridges with Ultra Chrome GS ink (Eco fiendly Solvent Ink).

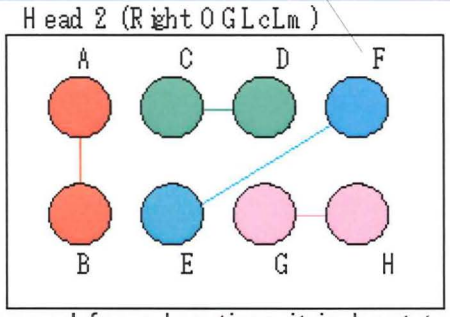
Ink Tubes Left: Black, Yellow, Magenta, Cyan.
Ink Tubes Right: Orange, Green, Light Magenta, Light Cyan.



Each Ink Tube is divided into 2 Tubes,
connecting to Damper / PrintHead.

It is importent to get the tubes connected
to correct Damper in Print Head.
Each tube has a letter ring, ABCDE.....
Match this to letter engraved on cover.





When printer is not used for a log time it is best to DRAIN the printer from ink.
Use the MAINTENANCE MENU / HEAD WASHING Menu from Control Panel.
When printer ask for Ink Cartridges, Power Off printer (Se page 7).

Read More
Service Manual
Chapter 2.2 / 4.4.11

EPSON Stylus Pro GS6000

Operating Principles

- **Circiuit Boards.**

Printer has different PCBs with different function!

1 - Main Board Assembly.

2 - Sub-A Board Assembly.

3 - Sub-B Board Assembly.

4 - Sub-C Board Assembly.

5 - Sub-D Board Assemblies.

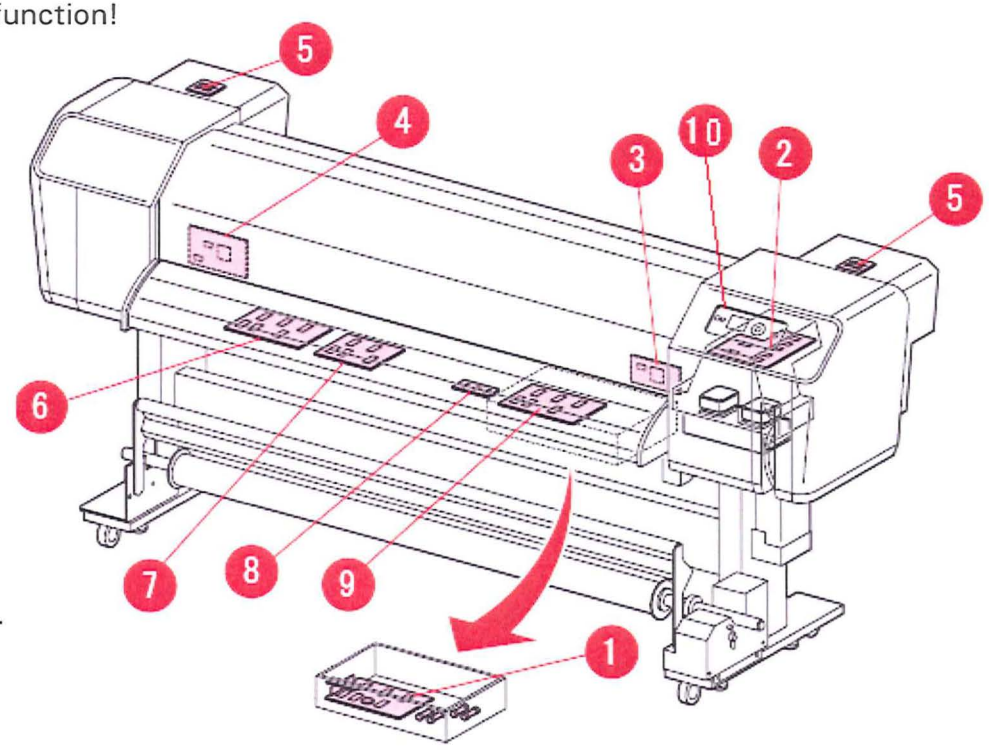
6 - Heater Relay Board Assembly.

7 - Heater Cont Board Assembly.

8 - P/S Term Board Assembly (Power Supply).

9 - P/S Board Assembly (Power Supply).

10 - Control Panel.



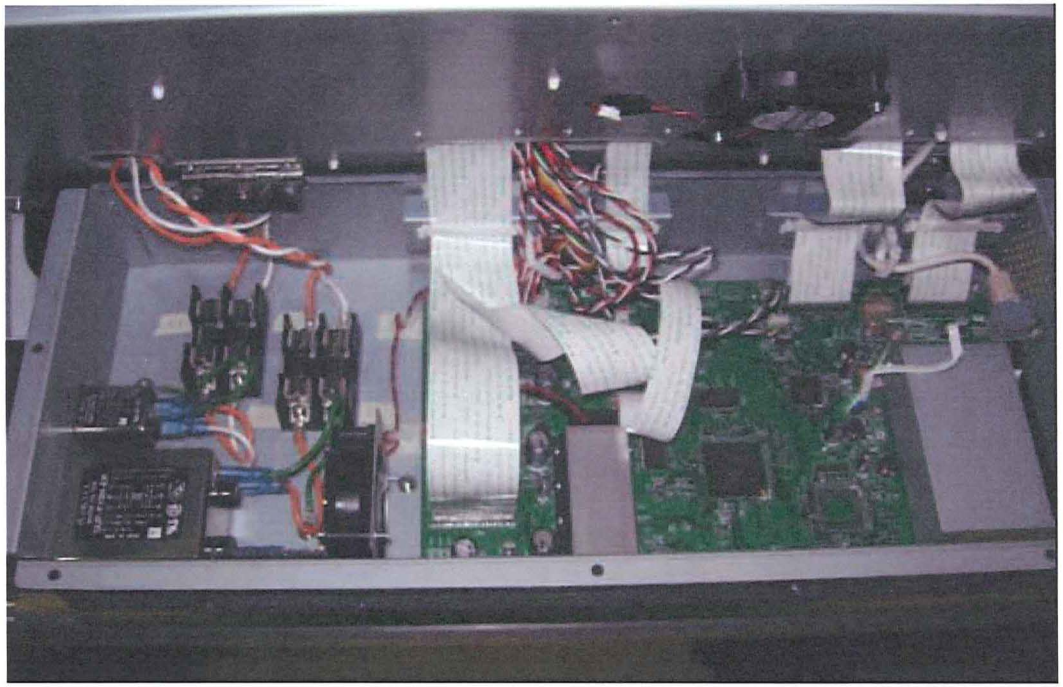
Read More
Service Manual
Chapter 2.6 / 4.2

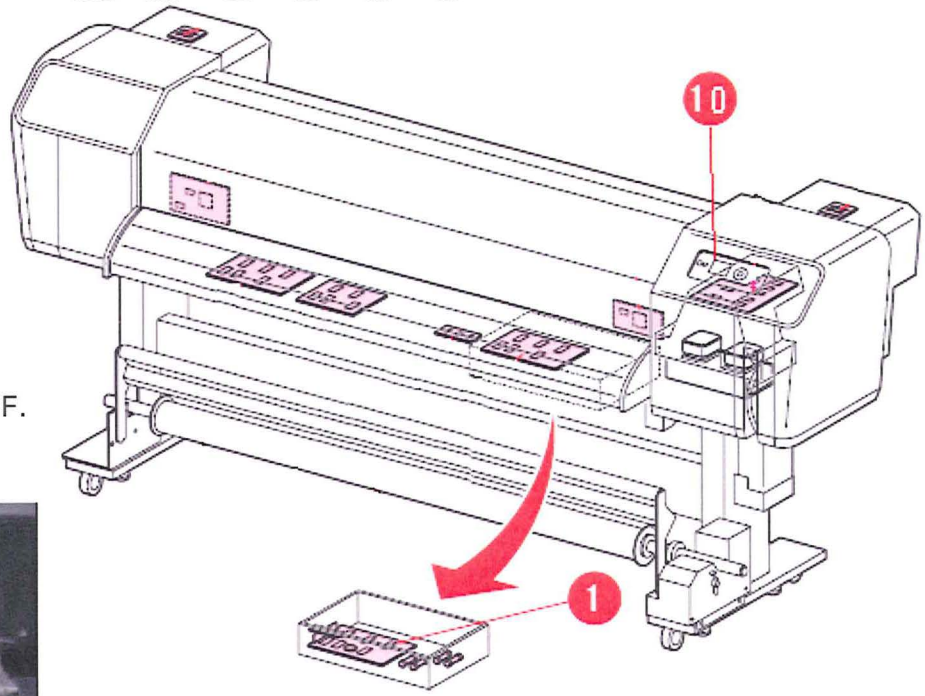
EPSON Stylus Pro GS6000

Operating Principles

- **Main Control Circuit Board and Control Panel.**
  Main Board and LV is located in a box under printer.
  There are also 2 AC inlet plugs.

10 - Control Panel.
The Control Panel must be losend from the printer.
Only one FFC cable is conneted to Control Panel.
Power ON / OFF button is only a remote Power ON / OFF.
- When Service is done unplugg printer from AC Inlet.
- Power then ON printer to unload charges in printer.





1 - Main Board Assembly

* Communicates with the RIP-computer.
* Processes received data.
* Controls the printer mechanism.
* Stores the correction values and various counters.
* Generates the voltages for the logic system from the voltage of 42V supplied from the P/S Board Assembly.

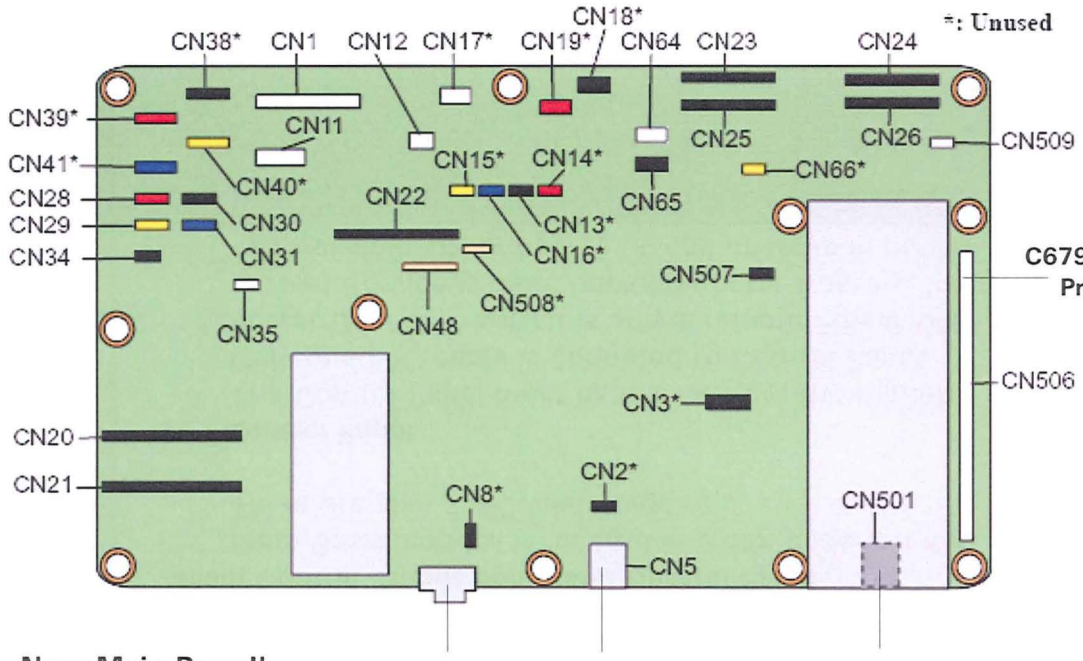
Read More
Service Manual
2.6 / 4.4.6.3

EPSON Stylus Pro GS6000

Operating Principles

- **Main Control Circuit Board.**

Description of the operation of MAIN Board, which controls and drives the Printer Mechanism in Stylus Pro GS6000.
Before start changing Main Board you must do a **NVRAM Backup**.



CN1	White	P/S TERM BOARD ASSY (J2)
CN2*	Black	Unused
CN3*	Black	Unused
CN5	---	USB
CN8*	Black	Unused
CN11	White	CR MOTOR
CN12	White	PF MOTOR
CN13*	Black	Unused
CN14*	Red	Unused
CN15*	Yellow	Unused
CN16*	Blue	Unused
CN17*	White	Unused
CN18*	Black	Unused
CN19*	Red	Unused
CN20	(FFC)	SUB_A BOARD ASSY (J1)
CN21	(FFC)	SUB_A BOARD ASSY (J2)
CN22	(FFC)	SUB_A BOARD ASSY (J3)
CN23	(FFC)	SUB_B BOARD ASSY (J1)
CN24	(FFC)	SUB_C BOARD ASSY (J1)
CN25	(FFC)	SUB_D BOARD ASSY (J1)
CN26	(FFC)	SUB_D BOARD ASSY (J1)
CN28	Red	VACUUM FAN
CN29	Yellow	VACUUM FAN
CN30	Black	VACUUM FAN
CN31	Blue	VACUUM FAN
CN34	Black	CR LOCK SOLENOID
CN35	White	HEATER BOARD COOLING FAN
CN38*	Black	Unused
CN39*	Red	Unused
CN40*	Yellow	Unused
CN41*	Blue	Unused
CN48	(FFC)	ALARM LED (CN1)
CN64	White	SUB_C BOARD ASSY (J4)
CN65	Black	SUB_B BOARD ASSY (J8)
CN66*	Yellow	Unused
CN501	---	LAN
CN506	**White**	**C679PROG**
CN507	(FFC)	LVDS BOARD (J1)
CN508*	Beige	Unused
CN509	White	COOLING FAN PE

Read More
Service Manual
Chapter 2.6 / 4.4.6.3

New Main Board!

- **Load** Latest Firmware.
- **Load** NV RAM backup file.

??

- Set **Init Ink Charge** = **OFF**. Se 5.4.5
  Default **Init Ink Charge** = **ON** on new Main Board.
- Do this before Power On printer if you do not want Init Ink Charge in printer.

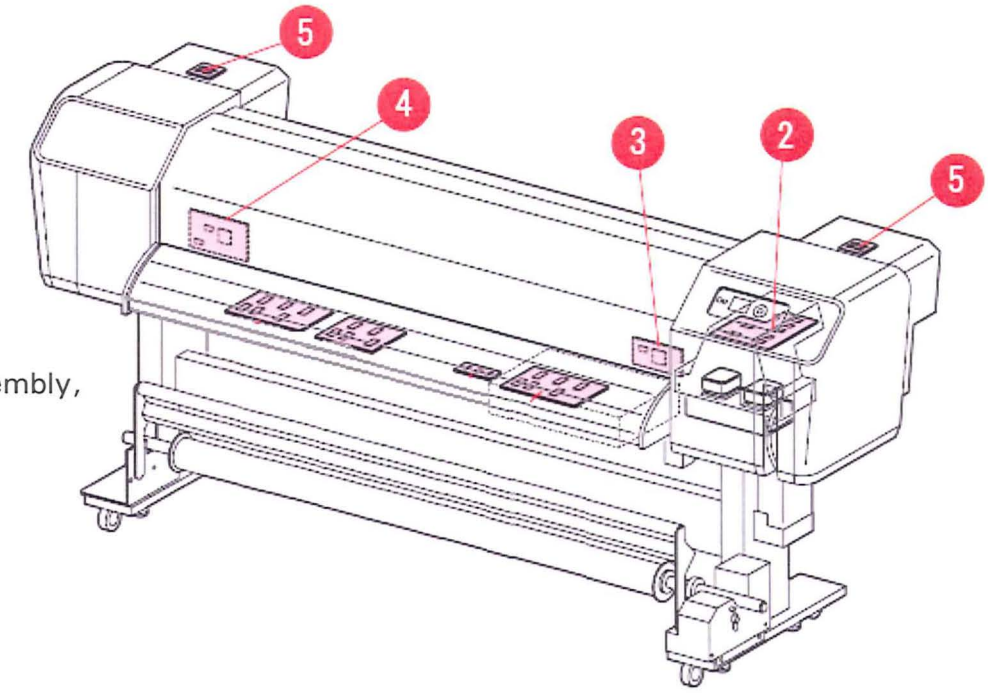
EPSON Stylus Pro GS6000

Operating Principles

- **Sub Boards Assembly.**

2 - Sub-A Board Assembly.
Relays the connection between the Main Board Assembly and the following parts.
* CR Encoder
* P Edge Sensor
* PG HP Sensor
* Print Heads
* Cooling Fans

3 - Sub-B Board Assembly.
Relays the connection between the Main Board Assembly, Sub-C Board Assembly, and the following parts.
* IC Cover Sensor (right)
* F Cover Sensor (right)
* M Cover Sensor (right)
* Sub Tank Sensors (right)
* Pump Motors
* Lever Sensor
* Paper Rear Sensor
* CR HP Sensor



4 - Sub-C Board Assembly.
Relays the connection between the Main Board Assembly, P/S Term Board Assembly, Sub-B Board Assembly and the following parts.
* IC Cover Sensor (left)
* F Cover Sensor (left)
* M Cover Sensor (left)
* Sub Tank Sensors (left)
* PF Encoder

5 - Sub-D Board Assemblies.
Relay the connection between the Main Board Assembly and the following parts.
* Ink Cartridges (CSIC)

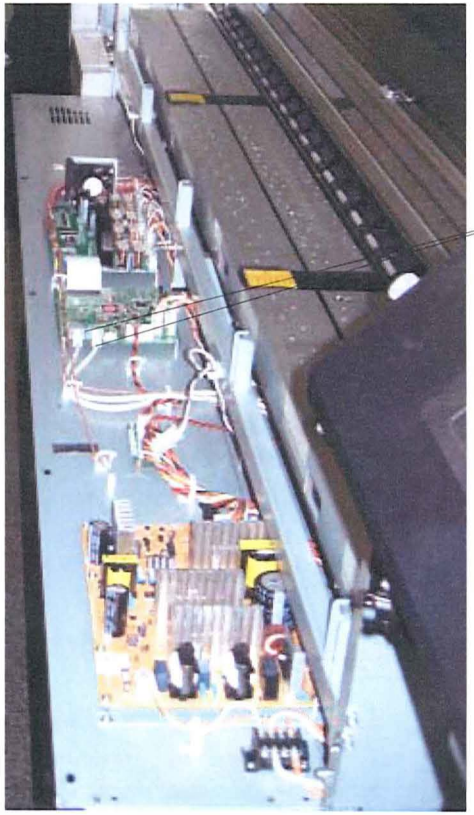
Read More
Service Manual
Chapter 2.6 / 4.4.6.8-11

EPSON Stylus Pro GS6000

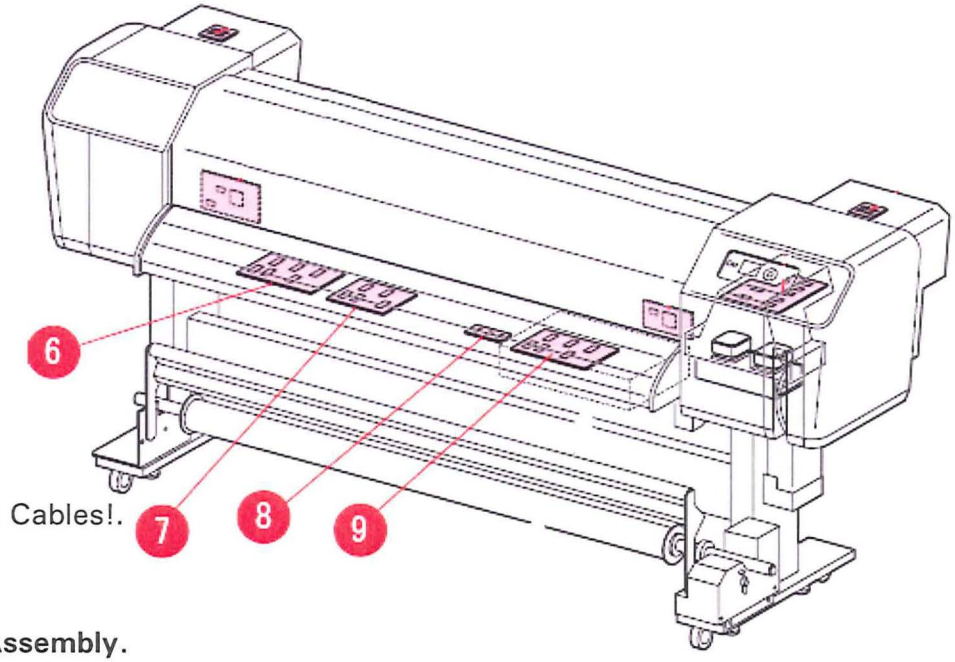
Operating Principles

- **Heater and Power Supply Circuit Boards.**

  Printer has different Power Supplys with different AC plugs. Connect them to different AC plug in wall.



Importent.
Do not mix the 2 Serial Cables!.



6 - Heater Relay Board Assembly.
The assembly mounting the relays to control the heaters.

7 - Heater Cont Board.
Assembly Controls the heaters.

8 - Power Supply Term Board.
Assembly Interface between the Main Board and the printer.

9 - Power Supply Board Assembly.
Generates the voltage for this printer from the AC power supply.

Read More
Service Manual
Chapter 2.6 / 4.4.6.4 - 7

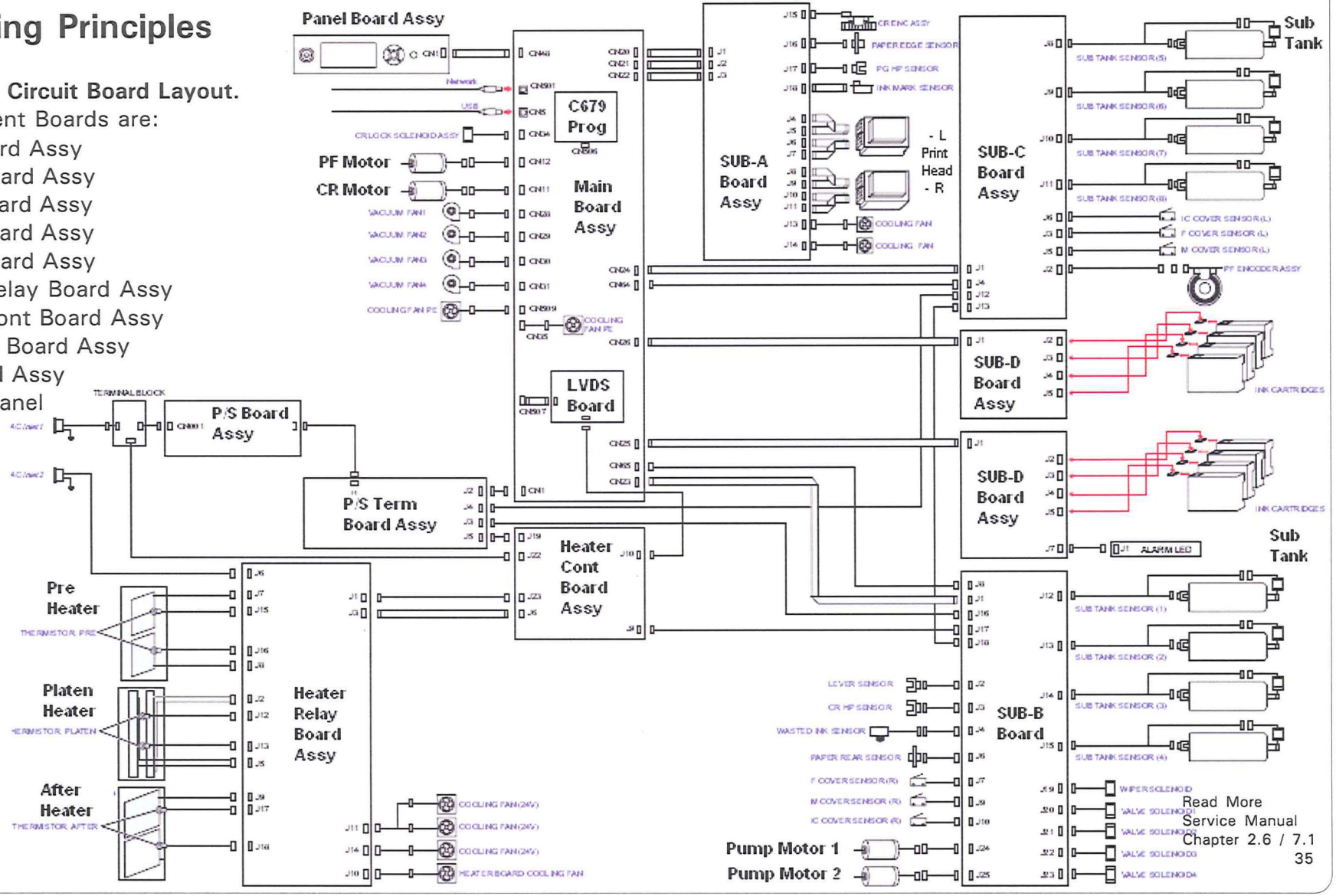
EPSON Stylus Pro GS6000

Operating Principles

- **Electrical Circuit Board Layout.**

The different Boards are:

- Main Board Assy
- Sub-A Board Assy
- Sub-B Board Assy
- Sub-C Board Assy
- Sub-D Board Assy
- Heater Relay Board Assy
- Heater Cont Board Assy
- P/S Term Board Assy
- P/S Board Assy
- Control Panel



Read More
Service Manual
Chapter 2.6 / 7.1

EPSON Stylus Pro GS6000

Troubleshooting

- **Troubleshooting Based on Panel Messages** Chapter 3 / Page 39.

  This printer conducts self testing based on output conditions of each sensor.
  Any error detected by self testing is displayed by an LCD message and LED or Activity indicator.

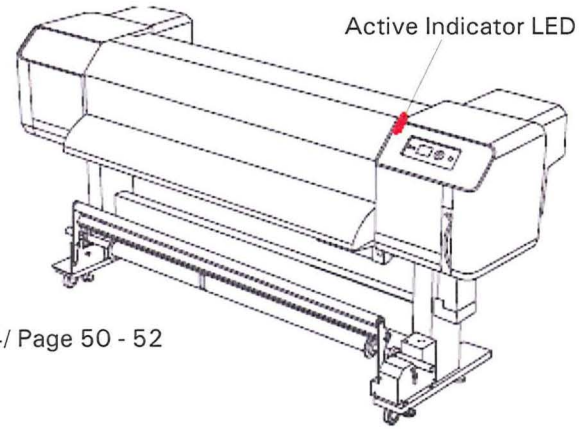
- **Warning and Error Messages** Chapter 3.2 / Page 41 - 44.

  When a Warning or Error occurs, the printer displays a message instead of "READY" or "PRINTING" messages. Active indicator is On or Flashing.

- **Service Call Errors** Chapter 3.3 / Page 45 - 49.

  The Service Call errors are displayed on the LCD panel to inform the user that an error which requires a service by a service personnel is occurring. Active indicator is On or Flashing. Calls are in the following Error groups.

  11xx = CR Related.
  12xx = PF Related.
  13xx = High Head Temperature.
  17xx = Position (Scales/Encoders).
  NEW group 19xx = Heaters / Sub Tank Sensors Related.
  1Axx = Boards / Heads Related.
  20xx = FW or NV-RAM Related.
  30xx = Power Related.
  (D... = Debug).
  (F.... = CPU Related).



- **Troubleshooting Based on Your Printout** Chapter 3.4/ Page 50 - 52

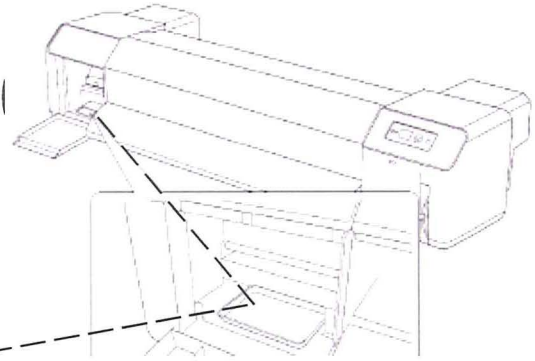
  Problems based on the media, heaters and printouts.

- **Cleaning** Cleaning can be done from Control Panel and with the following places / functions.

Maintenance Cleaning	- Menu / Maintenance / Cleaning 1.4.1 / page 22
Cleaning	- Service Program. 5.4.3 / 194
Ink Discharge Flag	- Service Program. 5.4.4 / 195
Init Fill Charge Flag	- Service Program. 5.4.5 / 196
Wash Sequence On/Off Flag	- Service Program. 5.6.3 / 211

Read More
Service Manual
Chapter 3

EPSON Stylus Pro GS600



Preventive Maintenance

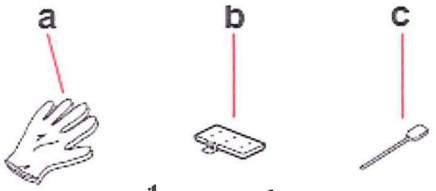
- **Maintenance.**

Any Preventive Maintanance indicated by messages on the LCD panel.
There are no regular **"Maintenace Kit"** for this printer other than ~~User~~ Maintenance.
Printer is deliverd with a **Maintenance Kit** + **Metall tray**. This should be enough for first year Customer Maintenance.
After this, customer can order the 2, **User Maintenance** / **Cleaning Kit** for maintenance (without metal tray).

gör sig att beställa!!

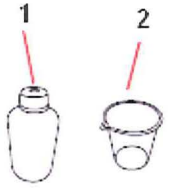
Maintenance Kit (C12C890611)

A - Plastic Gloves	Plastic gloves for cleaning or maintaining the printer.
B - Flushing Pad	Spare flushing pad for replacement.
C - Cleaning Stick	Used to clean the Cleaning Wiper or the PRINT HEAD.



Ink Cleaner (C12C890621)

1 - Ink Cleaner	Exclusive liquid cleaner to remove ink stains.
2 - Plastic Cup	Used to contain Ink Cleaner.



Seven User Maintenance Points.

1) Check / Clean the Head Wiper
2) Check / Clean Around the Heads
3) Check / Clean the Heads
4) Check / Replace the Flushing Pad
5) Check / Empty the Waste Ink Tank
6) Check / Clean the Platen Pressure Rollers
7) Lubricate the carriage

IMPORTENT!
Cleaning Liqiud can be used to clean metal objects but NOT on plastic parts.
Clean metall objects in media path / platen with cleaning liquid.
Platen Pressure Roller in media path can be cleaned with soft cloth or with alcohol.
Avoid to tuch Pressure Roller with your fingers, if you do, you get finger grease on rollers.

Read Service Manual chapter 6.3 and 6.4 how and what to clean.

- **Maintenance Requet** can ONLY be reset by using the Service Program firmware installed on your PC.

Part Name	**Maintenance Req.**	
CR Motor	0001	Reset after change with Service Program (6.7 / 212).

Read More
Service Manual
Chapter 6.4

EPSON Stylus Pro GS6000

Training Exercise 2

- Power Off printer.
- Take off Covers.
- Power On Printer and check printer movements and functions.
- Check where the different PCBs are located.
- Check differnt Switches and Sensors positions.
- Check the functions of "Carriage Lock".
- Check the function of pumps when cleaning.
- Check the funktion of Paper Feed.
- Check the

EPSON Stylus Pro GS6000

Disassembly / Assembly.

- You must follow the Service Manual Chapter 4 when disassembly and assembly printer.

Disassembly WARNING

1. Disconnect the 3, AC cable from the AC inlet on the backside of the main unit everytime power is not required. The Stylus Pro GS6000 printer has a secondly switch type for the power supply board.

   Even if you turn off the printer on the control panel, main power for driving motor and print head will be on each board, so always disconnect the 3 AC cable from the Printer AC inlet.

2. After unplug the AC Cable, Power On printer on Control Panel. To empty chaged power in different PCBs.

3. In you need to remove or re-seat the Flexible Flat Cable, always pull or push it vertically towards each connector. To do this by force without care, the PCBs can be damaged, with possible dot missing or head broken problems.

4. Always be aware of Static and take appropriate measures to overcome this.

5 . Solvent Ink will melt and do marks in any matetial. Ink Drops or marks are NOT possible to clean or remove. Watch out for ink drops on FFC and cables to avoid shortcuts.

6. Use gloves to protect hands, watch out for drops in eays or mouth.

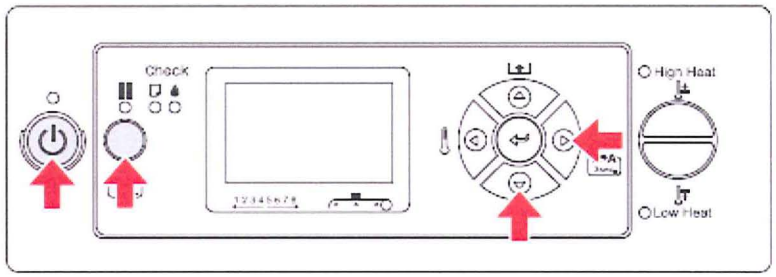
7. Do not mix water and solvent ink.

8. Do not use the TakeUp Unit when the SERVICE PROGRAM is used. Can not go backwards.

Read More
Service Manual
Chapter 4.1

EPSON Stylus Pro GS6000

Control Panel



- **Service Man. Mode / "Service Man Mode Map"**

- For Service purpose you can do test prints and cleaning cycles and also adjustments from control panel from Service Man. Mode.

In Appendix 7 there are **"Service Man Mode Map"** and **"User Menu Map"** for better understanding of Menu structure.

- Service Man. Mode. **(Pause + Menu> + PaperFeed V + PowerOn)**

Se Service Manual 1.4.4 / 29

To adjust and work on the GS6000 printer you need to have "Service Program" installed on you PC.
Some adjustments and set up can be done from Control Panel.
Maintenance Reset can **only** be done from "Service Program" program.

After Power On in Service Man. Mode you can select in menu between
Se Service Manual **"Service Man Mode Map"** Appendix 7 or Page 183.

SELF TESTING
- **Test**
- **Adjustment**
- **Life**
- **Feed**
- **Status**

Read More
Service Manual
Chapter 1.4.4 / 5.8.3

EPSON Stylus Pro GS6000

Service Programs

- There are Service Programs that Service Engineer need and must use. They should be installed on the PC in advance.

  * **Service Program** (5.1.5 / 179)
    There are SERVICE PROGRAM for Stylus Pro GS6000 only. SERVICE PROGRAM for Stylus Pro GS6000 does not work with other Stylus Pro printers.

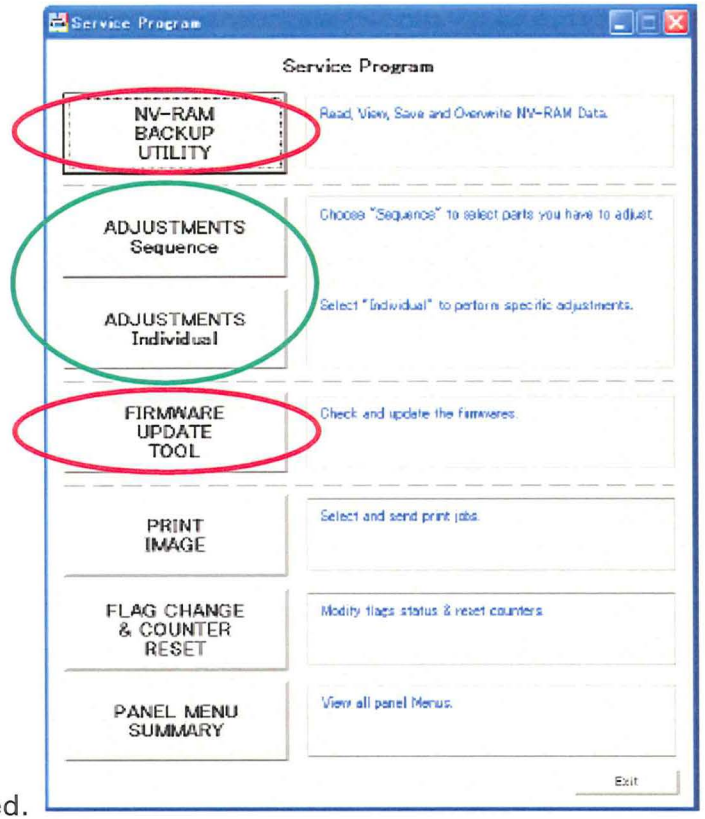
    SERVICE PROGRAM for Stylus Pro GS6000 must be installed in the correct way on the PC that should be used for adjustments. It is not possible to just copy the firmware. No Driver need to be installed.

  * **NVRAM Backup Utility** page 42 (5.2 / 185)

  * **FIRMWARE Update Tool** page 47. (5.6.2 / 209)

  * **LFR Remote Panel** page 45.
    This is a Custom Program that Service Engineer also can use.

Note: Do not use the TakeUp Unit when the SERVICE PROGRAM is used.



Read More
Service Manual
Chapter 5.1.5

EPSON Stylus Pro GS6000

Service Programs

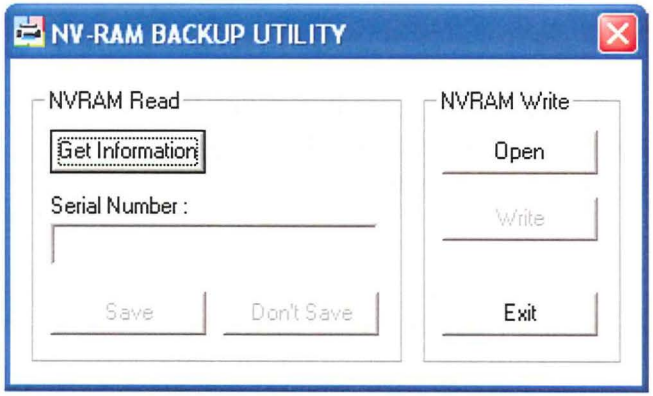
- **NVRAM Backup Utility.**

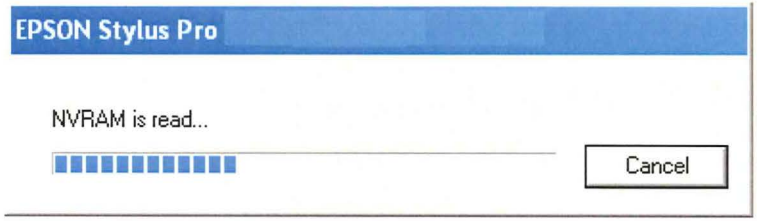
When the Main Board is replaced, it is important that parameters stored in the NVRAM on the old Main Board must be backed up and written onto the new board using the **NVRAM BackUp Utility**. Parameters from the Old board can then be moved to the New Main Board and make change more easy. Printer should be in READY Mode for this to work. (No driver is needed).
If the printer is in ERROR Mode you must start printer in SERVICE MAN Mode.

NVRAM Back Up Mode (Read 5.2 / 185)

SERVICE MAN Mode **(Pause + Menu> + Paper FeedV+ Power On)**

After BackUp is done, save the parameters on your PC disk on the printers Serial Number.





After changing Main Board....

- Start program
- Open saved File
- Read back this file to the NEW Main Board.

Read More
Service Manual
Chapter 5.2

EPSON Stylus Pro GS6

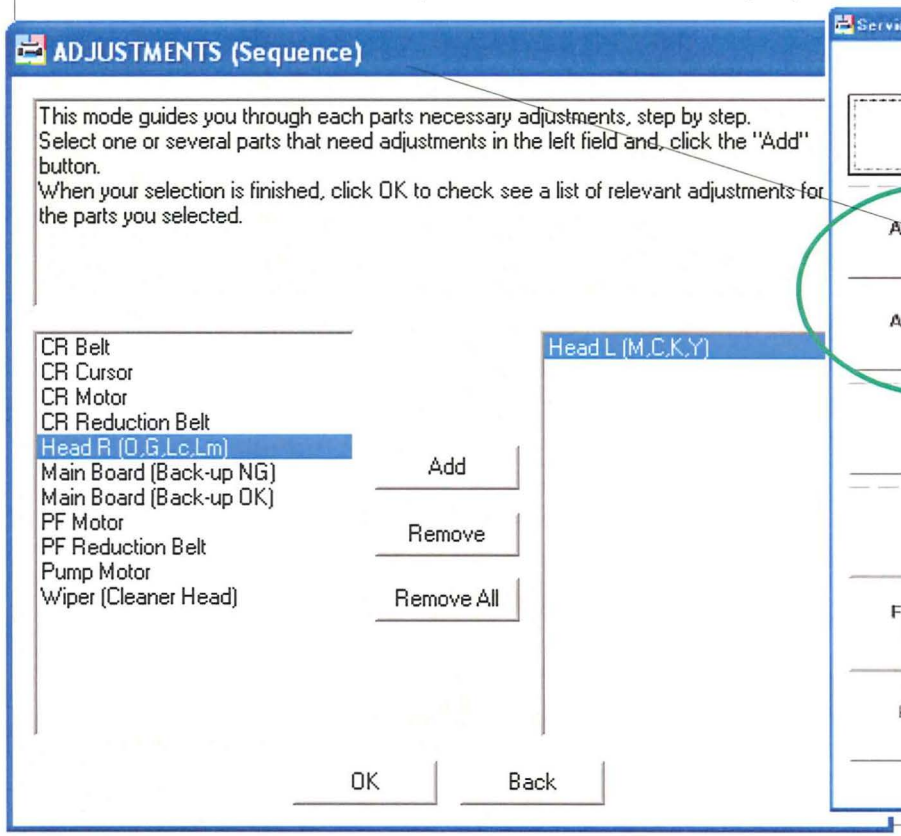
Service Programs

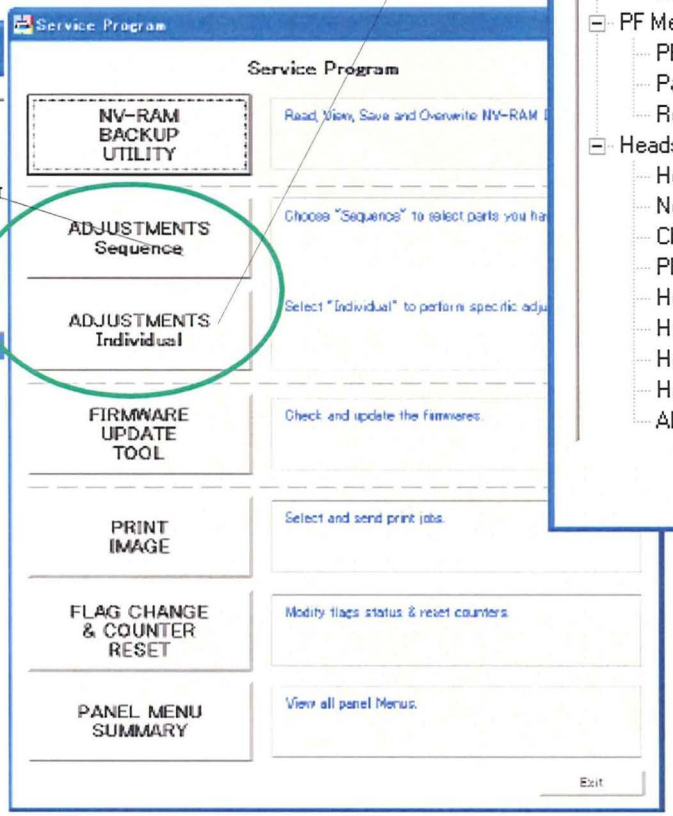
- **SERVICE PROGRAM** for Stylus Pro GS6000 only.
  Used for service operations after parts replacement or failure.
  Advanced print quality adjustment and Head Rank input.
  SERVICE PROGRAM has 2 Modes, **Sequential** and **Individual**.
  Start from **START - RUN** and browse to **servprog.exe**
  Must be set to USB or Network Port. (No driver needed)
  Start with printer in **READY** in display.

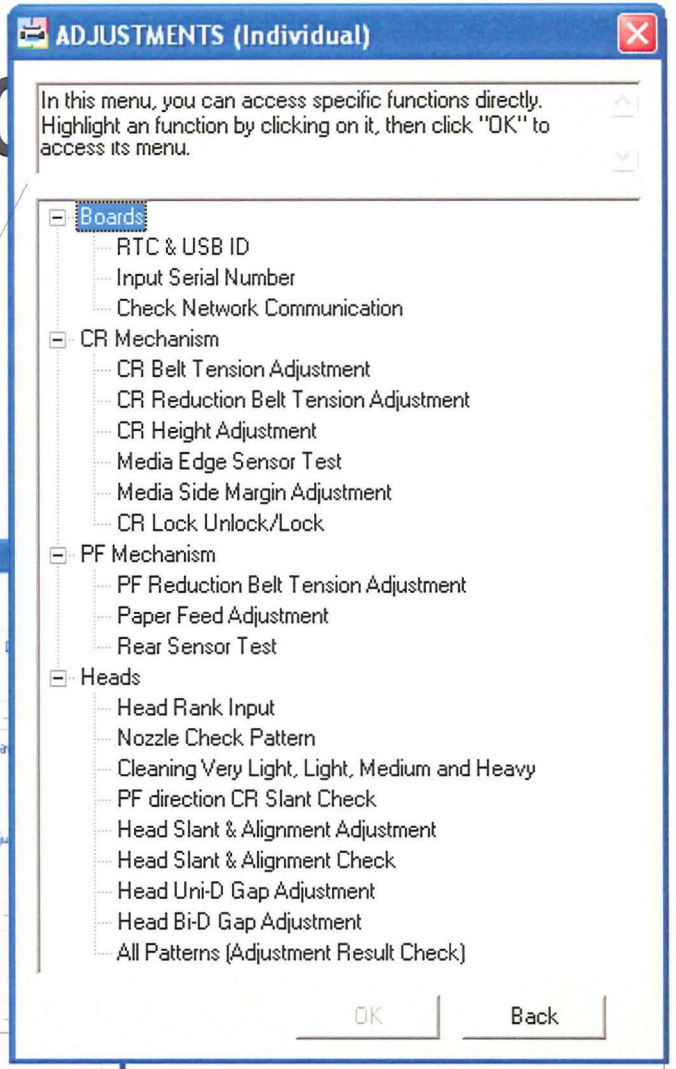
2

1

3


ADJUSTMENTS (Sequence)
This mode guides you through each parts necessary adjustments, step by step.
Select one or several parts that need adjustments in the left field and, click the "Add" button.
When your selection is finished, click OK to check see a list of relevant adjustments for the parts you selected.
CR Belt
CR Cursor
CR Motor
CR Reduction Belt
Head R (O,G,Lc,Lm)
Main Board (Back-up NG)
Main Board (Back-up OK)
PF Motor
PF Reduction Belt
Pump Motor
Wiper (Cleaner Head)
Add
Remove
Remove All
Head L (M,C,K,Y)
OK
Back




ADJUSTMENTS (Individual)
In this menu, you can access specific functions directly. Highlight an function by clicking on it, then click "OK" to access its menu.
Boards
RTC & USB ID
Input Serial Number
Check Network Communication
CR Mechanism
CR Belt Tension Adjustment
CR Reduction Belt Tension Adjustment
CR Height Adjustment
Media Edge Sensor Test
Media Side Margin Adjustment
CR Lock Unlock/Lock
PF Mechanism
PF Reduction Belt Tension Adjustment
Paper Feed Adjustment
Rear Sensor Test
Heads
Head Rank Input
Nozzle Check Pattern
Cleaning Very Light, Light, Medium and Heavy
PF direction CR Slant Check
Head Slant & Alignment Adjustment
Head Slant & Alignment Check
Head Uni-D Gap Adjustment
Head Bi-D Gap Adjustment
All Patterns (Adjustment Result Check)
OK
Back

Read More
Service Manual
Chapter 5.1.5

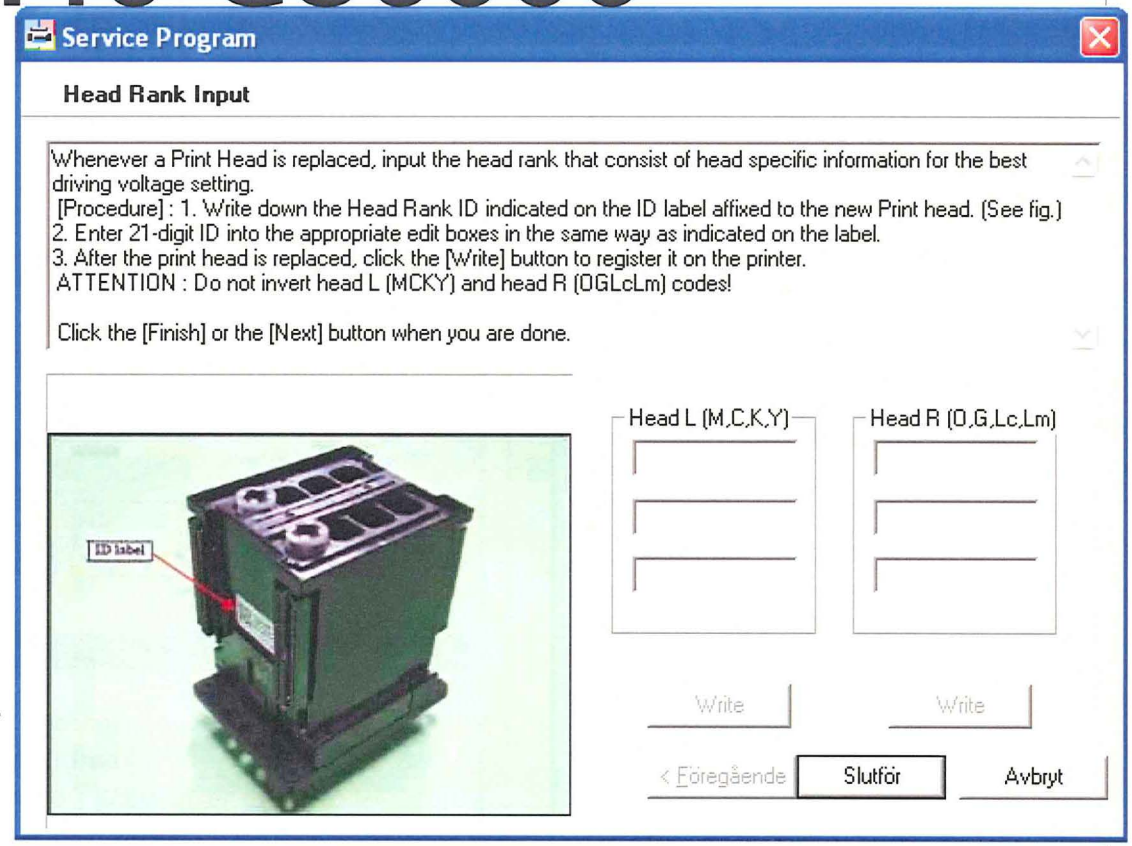
EPSON Stylus Pro GS6000

Print Head Replacement.

- **Print Head replacement / Head Rank ID.**

Every printhead has its own Head Rank ID which compensates unit-to-unit variation. Head Rank consist of head particular information for the best driving voltage set. Whenever the printhead is replaced, the Head Rank ID of the new printhead must be written using Service Program.

It is important that you write down the Head Rank ID before Print Head is installed. It is not possible to read label when printhead is installed in printer!
Always doubblecheck the Head Rank so that it is correct before installing Print Head. Note that the printer has 2 printheads with 2 different Read Ranks.


Service Program
Head Rank Input
Whenever a Print Head is replaced, input the head rank that consist of head specific information for the best driving voltage setting.
[Procedure] : 1. Write down the Head Rank ID indicated on the ID label affixed to the new Print head. (See fig.)
2. Enter 21-digit ID into the appropriate edit boxes in the same way as indicated on the label.
3. After the print head is replaced, click the [Write] button to register it on the printer.
ATTENTION : Do not invert head L (MCKY) and head R (OGLcLm) codes!
Click the [Finish] or the [Next] button when you are done.
ID label
Head L (M,C,K,Y)
Head R (O,G,Lc,Lm)
Write
Write
< Föregående
Slutför
Avbryt

1. Write down the Head Rank ID indicated on the ID label affixed to the new Printhead. (See fig.)

2. Enter 21-digit ID into the edit boxes in the same way as indicated on the label.

3. After printhead is replaced, click the [Write] button to write it to printer.

Read More
Service Manual
Chapter 5.4.1

EPSON Stylus Pro GS6000

Printer Driver / Utility

- **EPSON LFP Remote Panel.**

  A customer program that you also can use for service purpose.

  This program come on the customer CD together with printer or can be downloaded from **www.epson.co.uk**

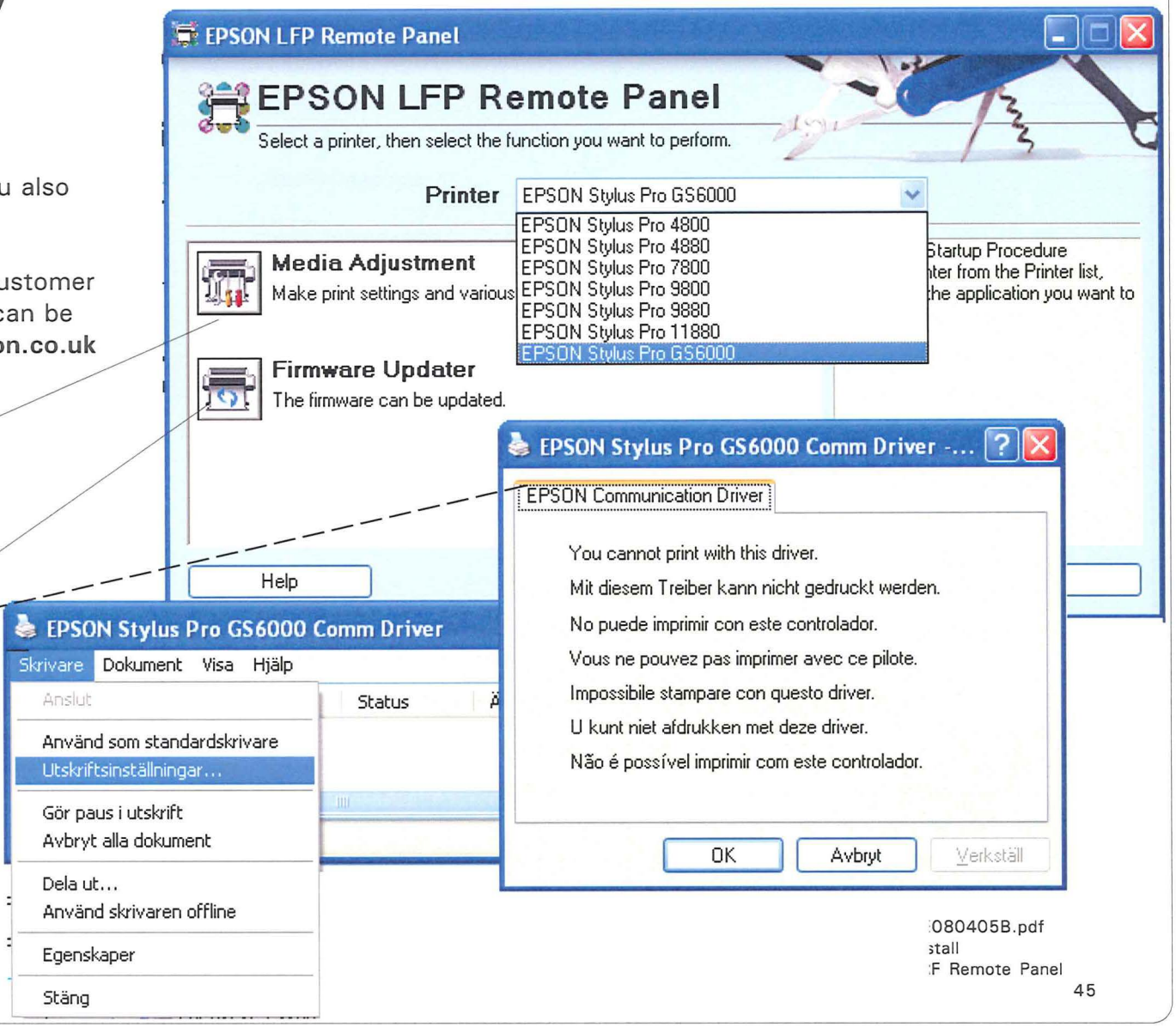
Use for:

* **Media Adjustments.**
  - Custom Paper Set Up
  - Activate Custom Paper
  - Paper Feed Adjust
  - Bidirectional Adjustment
* **Firmware Update.**

- **Driver for GS6000.**

  These functions can only be used if driver is installed. This is not a Print Driver. **Only for Communication.**

  Print driver avalible throu RIP-manufatuers only. Not possible to install in Windows as a printer.



EPSON Stylus Pro GS6000

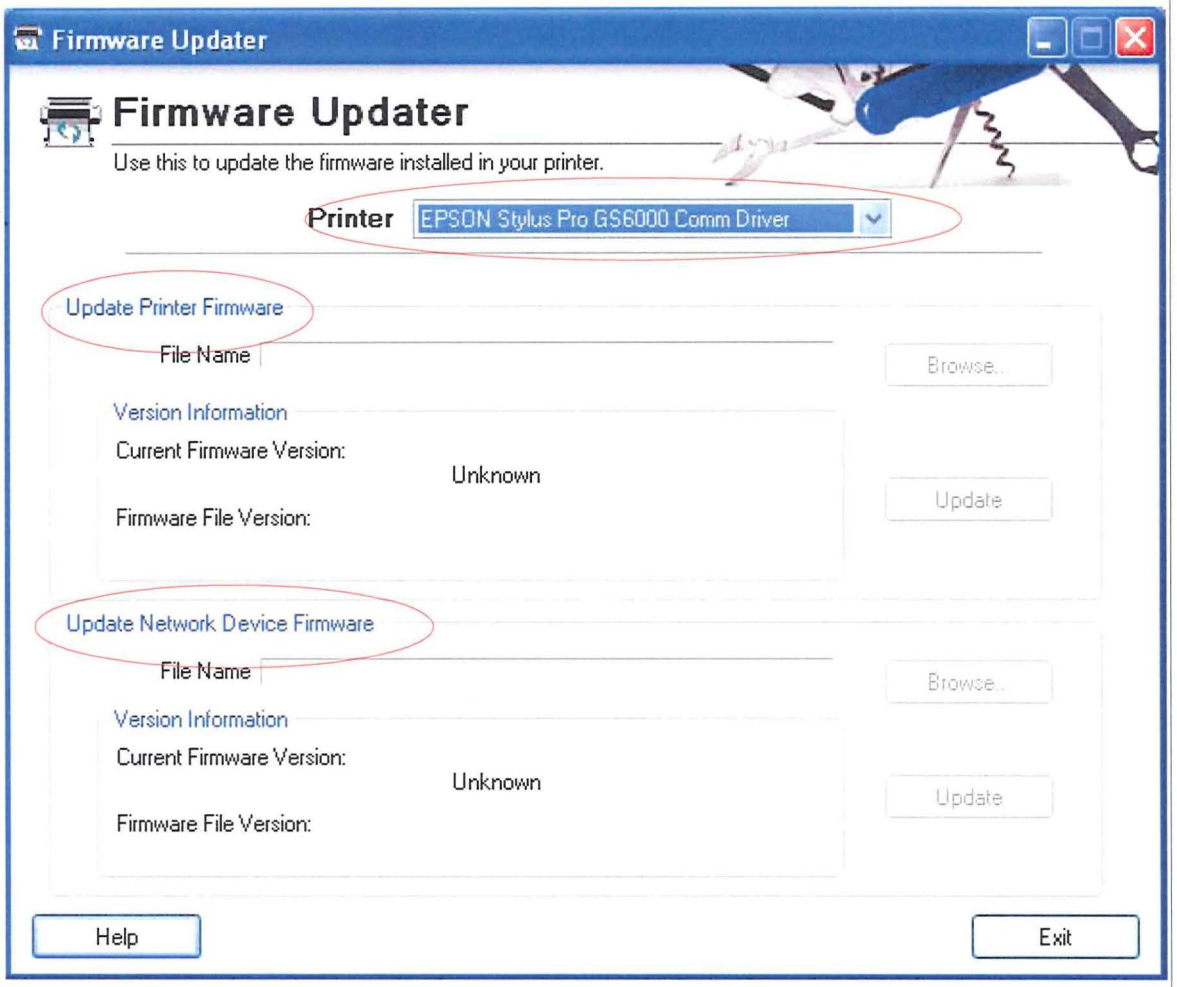
Firmware Update 1.

- **Update firmware from LFP Program.**
  Use this function for firmware update.
  You can update Printer or Network Firmw
  You must have the Communication Driver installed and the correct printer selected. (Only Working Printer!)

  Firmware for the printer is written to the Flash ROM on the Main Board.
  FIRMWARE UPDATE mode is automatically selected.

* **Update Firmware** with **LFP Remote Panel**

1. Connect the printer to the host (with a USB cable).
2. Turn the printer on.
3. Check that the printer is "READY".
4. Select the correct firmware.
   * Printer **(xx_q.UPG format)**
   * Network **(xx_q.UPG format)**
5. Send F/W file from host **LFP Remotel Pane.**
6. F/W installation is completed.
7. The printer reboots automatically.



Importent: There are different types of firmwares for different situations.
- **MP_Txxxxx_q.UPG** (For Users, use the EPSON LFP Remote Panel soft to upgrade.)
- **MPa_Txxxxx.UPG** (For Serviceman, use the Service Program soft to upgrade.)

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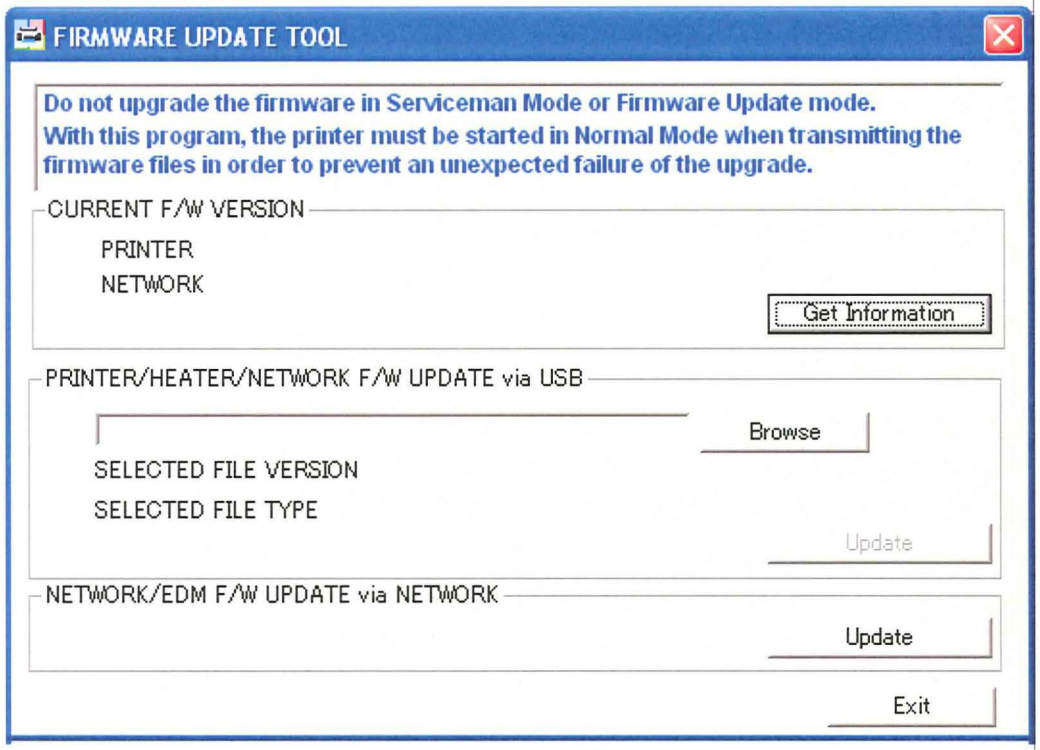
Firmware Update 2.

- **Update / Installing Firmware from Service Program.**

The firmware of the printer is stored onto the Flash ROM on the Main Board.
Update firmware after Main Board are replaced.
Or when firmware update is required.
There are four kinds of firmware provided for this printer. Each of them must be updated individually is needed. Do this with USB interface.

* Main firmware
* Heater firmware
* Network firmware
* EDM firmware


FIRMWARE UPDATE TOOL
Do not upgrade the firmware in Serviceman Mode or Firmware Update mode.
With this program, the printer must be started in Normal Mode when transmitting the firmware files in order to prevent an unexpected failure of the upgrade.
CURRENT F/W VERSION
PRINTER
NETWORK
Get Information
PRINTER/HEATER/NETWORK F/W UPDATE via USB
Browse
SELECTED FILE VERSION
SELECTED FILE TYPE
Update
NETWORK/EDM F/W UPDATE via NETWORK
Update
Exit

Firmware Update Tool.

1. Start the Firmware Update Tool.
2. Select the firmware file with Browse. (**MPa_Txxxxx.UPG)**
3. Click the **[Update]** button to transfer the firmware data.
4. When the transferring is completed, "Completetion" pop-up is displayed.

Printer should be in READY Mode for this to work. (No driver is needed).
If the printer is in ERORR Mode you must start printer in Firmware Update Mode.

Firmware Update Mode **(Menu> + < + Paper Feed/\ + Paper FeedV + PowerOn)**
Firmware Update Mode (Read 5.6.2 / 209) There are different types of firmwares.
- **MP_Txxxxx_q.UPG** (Use the EPSON LFP Remote Panel to upgrade.)
- **MPa_Txxxxx.UPG** (Use the Service Program to upgrade.)

Read More:
TE080405B.pdf
Service Manual
Chapter 5.1.20 / 5.6.2

EPSON Stylus Pro GS6000

Training Exercise 3

- **Power on printer.**

- Start Up **SERVICE PROGRAM** program.
  * Select Sequential or Individual Adj. Mode.

- Start Up and run the **NVRAM BACKUP** program.

- Start Up **Firware Update Utility**.
  * Select and do a FIRMWARE UPDATE (2)

- Start Up **LFP Remote Panel** Program.
  * Select and test the different functions.
  * Select and do a FIRMWARE UPDATE (1)

EPSON Stylus Pro GS6000

Installed Program for Service !

- You must have a PC with the following program installed on your PC.
  * USB Cable
  * "Service Program" (for SP GS6000)
  * "NVRAM Util".
  * "Firmware Update Tool"
  * "LFR Remote Panel"
  * Service Manual Stylus Pro SP GS6000

Service Tools

- Service Ink cartridge 350ml. Flashing Point 71degree C.

1500235	INK CART.UNBOXED,BK,PIG'T;350ml
1500236	INK CART.UNBOXED,C,PIG'T;350ml
1500237	INK CART.UNBOXED,M,PIG'T;350ml
1500238	INK CART.UNBOXED,Y,PIG'T;350ml
1500239	INK CART.UNBOXED,LC,PIG'T;350ml
1500240	INK CART.UNBOXED,LM,PIG'T;350ml
1500241	INK CART.UNBOXED,GRN,PIG'T;350ml
1500242	INK CART.UNBOXED,OR,PIG'T;350ml
C13T623000	Clean Cartridges. Use 8 for each printer. (Can only be used once)
1502538	Marking Film (Media) To be used in all adjustments.
---	Gloves Latex / Nitrile Gloves

- Tools.

1501560	GS6K / TUBE HOLDER
1501561	GS6K / SPRING SET TOOL
1501562	GS6K / HEAD HOLDER
1501563	GS6K / PG ADJUSTMENT JIG

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- Maint Kit.

C12C890611	User Maintenance Kit
C12C890621	Ink Cleaner Kit

Read More
Service Manual

EPSON Stylus Pro GS6000

Where To find info
WEBs / TECH WEB / APMS

- EPSONs WEB, http://www.epson.se/ or http://www.epson.co.uk/

- InfoCare TECH WEB / APMS http://sweintranet.infocare.org/apms/
  Search on P = PRINTER
  under EPSON you can find
  - **Manuals**
  - **Spare Parts List**
  - **User´s Referance Manual**
  - **Firmware**
  - **Technical Bulletins**
  - **Test and Maintenance Program**
  - **Link to EPSON Printer Drivers**

- InfoCare TECH WEB / APMS http://sweintranet.infocare.org/apms/
  Under PRINTER there is also a LINK to
  KNOWN PRINTER PROBLEM and SOLUTION LINK

- IC Reservdelsdatas http://sweintranet.infocare.org/sparepart/
  IC Part Finder

EPSON Stylus Pro GS6000

END !

Anders Nordin
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